

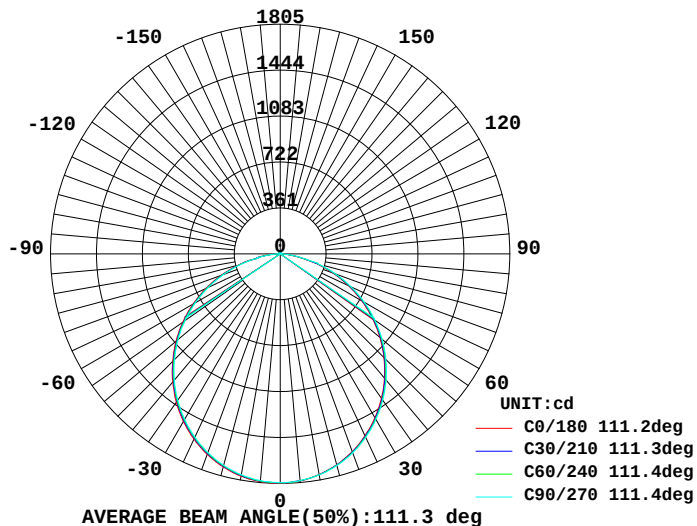
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:			
Address:			
NAME: Office Standart 82Ra 4000K 40W Opal		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4135	DIMENSION: 595x595x20	SERIAL No.:

DATA OF LAMP		Imax(cd)	1805	S/MH(C0/180)	1.25
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.24
NOMINAL POWER(W)	42	TOTAL FLUX(lm)	5072.0	Voltage(V)	220.3
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	122.2	Current(A)	0.195
NOMINAL FLUX(lm)	5072.0	η up(%)	1.4	Power(W)	41.49
LAMPS QUANTITY	1	η down(%)	98.6	Power Factor(PF)	0.963
TEST VOLTAGE(V)	220.4	Effective Flux(lm)	5072.0	EEI	0.111

LUMINOUS INTENSITY DISTRIBUTION



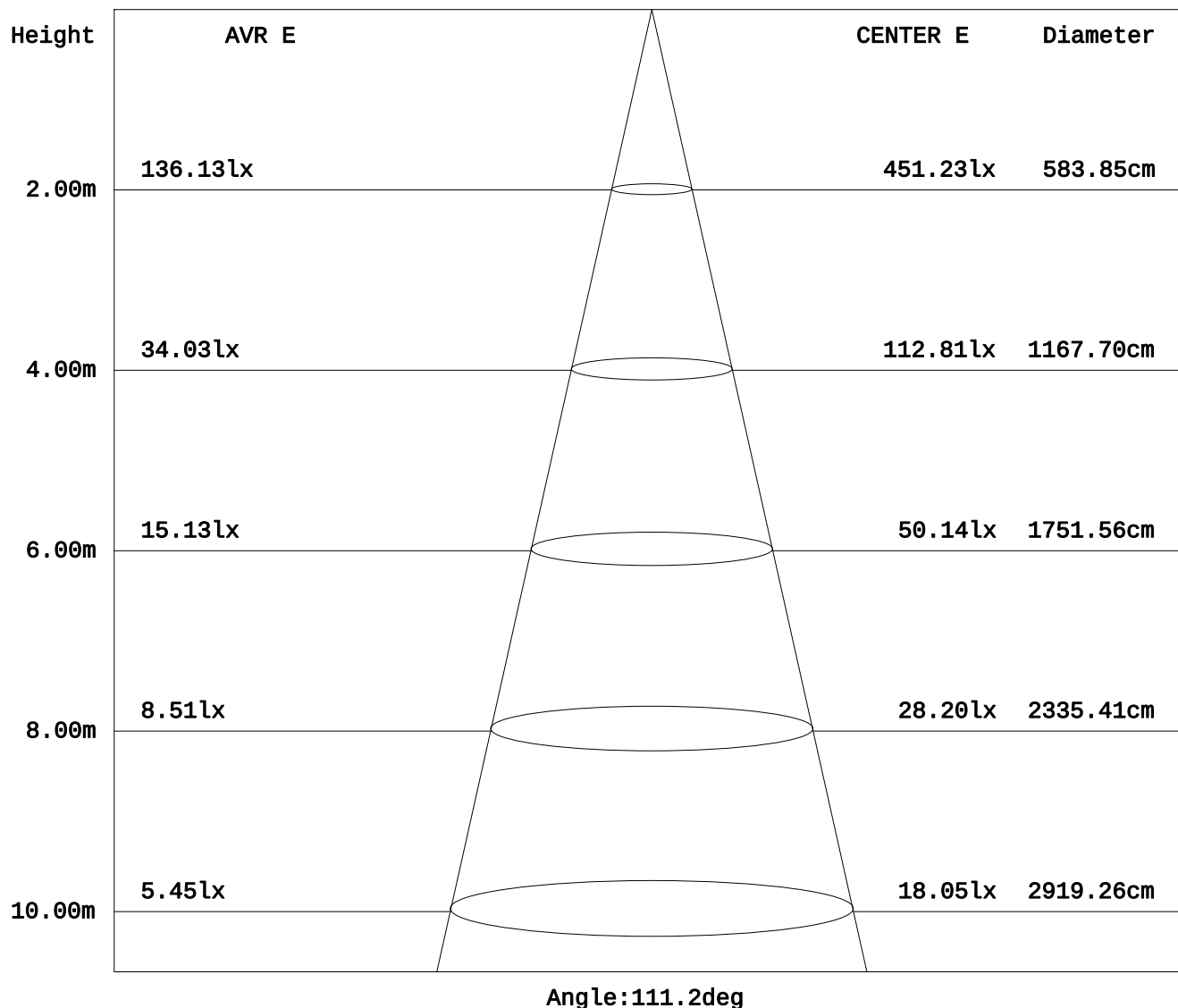
Test System:
 Temperature: 25.3°C
 Operators:
 Test Date: 03-21-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks: 84Ra. 1.1% Flicker. 31.2 Temp

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: Office Standart 82Ra 4000K 40W Opal		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4135	DIMENSION: 595x595x20	SERIAL No.:



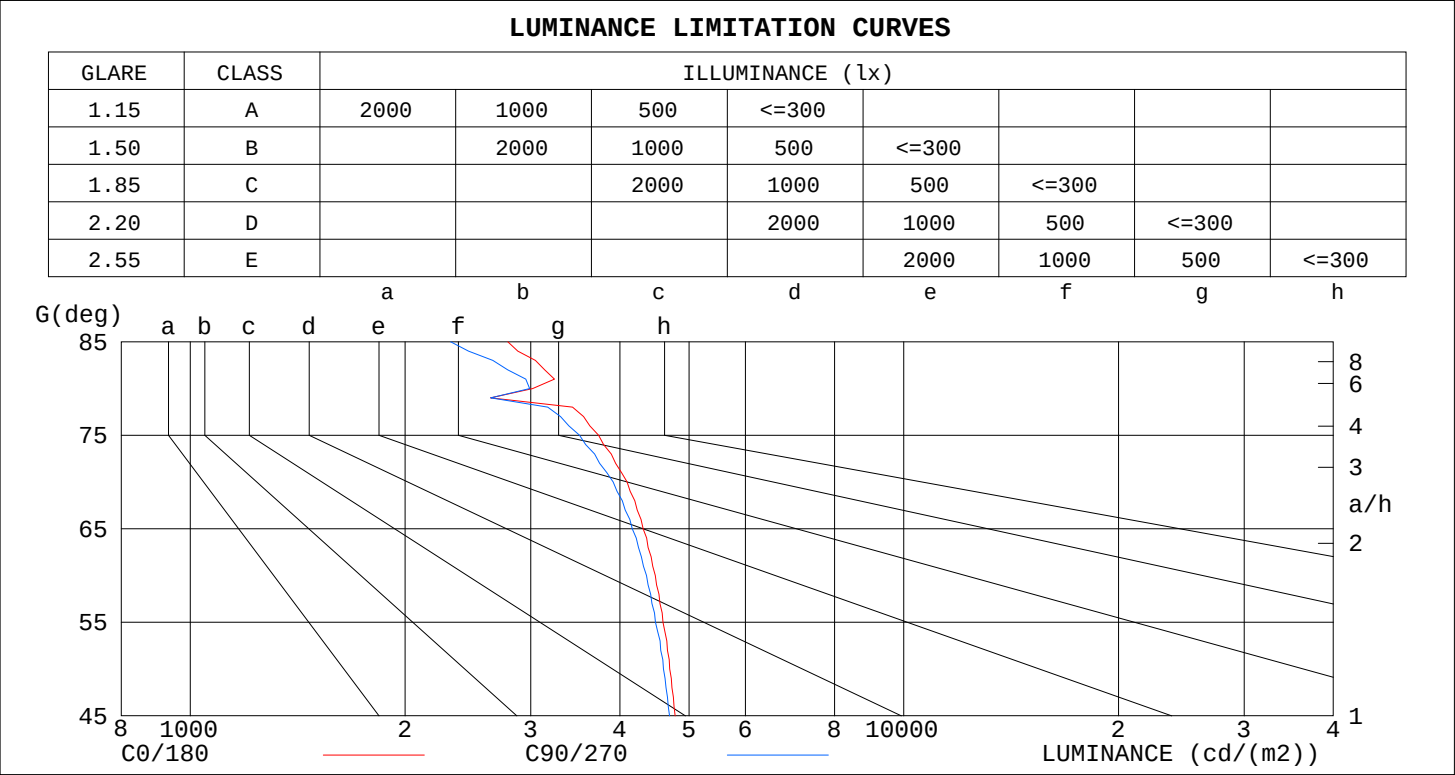
Test System:
 Temperature: 25.3°C
 Operators:
 Test Date: 03-21-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks: 84Ra. 1.1% Flicker. 31.2 Temp

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: Office Standart 82Ra 4000K 40W Opal		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4135	DIMENSION: 595x595x20	SERIAL No.:



LUMINANCE cd/m2		
G(deg)	C0/180	C90/270
85	2787	2317
80	3019	2990
75	3736	3513
70	4096	3915
65	4312	4163
60	4485	4358
55	4597	4488
50	4698	4605
45	4780	4695

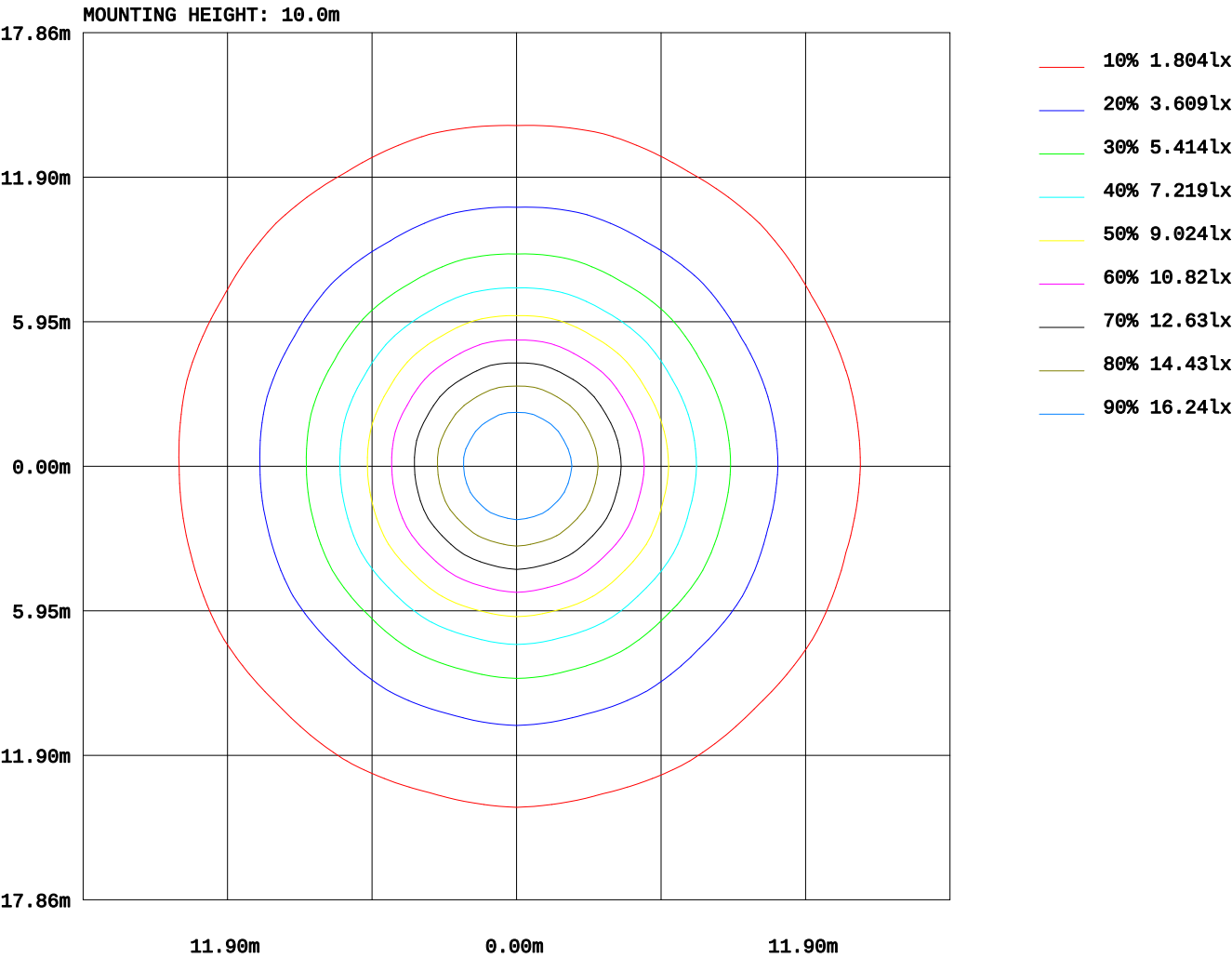
Test System:
Temperature:25.3'C
Operators:
Test Date:03-21-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 84Ra. 1.1% Flicker. 31.2 Temp

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: Office Standart 82Ra 4000K 40W Opal		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4135	DIMENSION: 595x595x20	SERIAL No.:



Test System:
Temperature:25.3'C
Operators:
Test Date:03-21-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 84Ra. 1.1% Flicker. 31.2 Temp

UGR Table

Report number:

MANUFACTURER:				
Address:				
NAME: Office Standart 82Ra 4000K 40W Opal			TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4135	DIMENSION: 595x595x20		SERIAL No.:

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	18.1	19.6	18.4	19.8	20.0	18.0	19.5	18.3	19.7	19.9
3H	19.6	20.9	19.9	21.2	21.5	19.4	20.8	19.7	21.0	21.3
4H	20.1	21.4	20.5	21.7	22.0	19.9	21.2	20.3	21.5	21.8
6H	20.5	21.7	20.8	22.0	22.3	20.3	21.5	20.6	21.8	22.1
8H	20.6	21.8	20.9	22.1	22.4	20.3	21.5	20.7	21.8	22.2
12H	20.6	21.8	21.0	22.1	22.4	20.4	21.5	20.8	21.8	22.2
4H 2H	18.7	20.0	19.0	20.3	20.5	18.6	19.9	18.9	20.2	20.5
3H	20.3	21.5	20.7	21.8	22.1	20.2	21.4	20.6	21.7	22.0
4H	21.0	22.1	21.4	22.4	22.8	20.8	21.9	21.2	22.2	22.6
6H	21.4	22.4	21.9	22.7	23.1	21.2	22.2	21.7	22.5	22.9
8H	21.6	22.4	22.0	22.8	23.2	21.3	22.2	21.8	22.6	23.0
12H	21.7	22.5	22.1	22.9	23.3	21.4	22.2	21.8	22.6	23.0
8H 4H	21.2	22.1	21.7	22.5	22.9	21.1	21.9	21.5	22.3	22.7
6H	21.8	22.5	22.2	22.9	23.4	21.6	22.3	22.1	22.7	23.2
8H	22.0	22.6	22.5	23.1	23.6	21.8	22.4	22.3	22.9	23.3
12H	22.1	22.7	22.6	23.1	23.6	21.9	22.4	22.4	22.9	23.4
12H 4H	21.2	22.0	21.7	22.4	22.9	21.1	21.9	21.5	22.3	22.7
6H	21.8	22.4	22.3	22.9	23.4	21.6	22.3	22.1	22.7	23.2
8H	22.0	22.6	22.5	23.1	23.6	21.8	22.4	22.3	22.8	23.4

Variations with the observer position at spacings:

S = 1.0H	+ 0.1 / - 0.2	+ 0.1 / - 0.1
1.5H	+ 0.1 / - 0.3	+ 0.1 / - 0.2
2.0H	+ 0.2 / - 0.4	+ 0.3 / - 0.3

CIE Pub.117 Corrected 5072 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.6)

Test System:
 Temperature:25.3'C
 Operators:
 Test Date:03-21-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: 84Ra. 1.1% Flicker. 31.2 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:															
Address:															
NAME: Office Standart 82Ra 4000K 40W Opal								TYPE:				WEIGHT:			
SPECIFICATION:				CCT(K): 4135				DIMENSION: 595x595x20				SERIAL No.:			

UNIT: cd

C(deg) γ (deg)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210
0.0	1805	1802	1801	1800	1801	1798	1797	1798	1798	1798	1799	1798	1805	1802	1801
5.0	1798	1793	1794	1792	1792	1788	1788	1787	1790	1786	1789	1788	1792	1792	1791
10.0	1775	1767	1769	1764	1766	1760	1763	1758	1762	1758	1762	1759	1762	1766	1762
15.0	1734	1725	1731	1720	1725	1717	1721	1713	1719	1712	1720	1714	1716	1723	1717
20.0	1678	1668	1672	1660	1666	1656	1663	1652	1659	1650	1660	1652	1655	1664	1657
25.0	1606	1592	1599	1585	1594	1580	1588	1576	1585	1574	1585	1576	1577	1591	1581
30.0	1522	1507	1515	1499	1509	1493	1503	1489	1499	1485	1500	1487	1488	1505	1492
35.0	1424	1406	1416	1399	1411	1392	1404	1387	1400	1384	1399	1386	1387	1404	1393
40.0	1314	1294	1307	1287	1300	1280	1294	1273	1289	1271	1288	1272	1274	1292	1281
45.0	1197	1175	1190	1167	1183	1161	1175	1155	1171	1151	1171	1153	1151	1176	1157
50.0	1069	1046	1062	1038	1055	1031	1048	1024	1042	1020	1041	1022	1023	1046	1030
55.0	934	908	926	900	919	893	911	887	906	883	905	884	885	909	893
60.0	794	767	787	759	779	752	771	745	766	741	765	743	739	769	747
65.0	645	616	638	608	630	601	623	594	617	590	616	592	592	621	600
70.0	496	462	485	455	481	448	474	441	465	437	464	439	439	469	447
75.0	342	314	336	307	329	300	322	301	317	301	316	303	299	320	300
80.0	186	160	188	154	187	148	184	143	182	140	181	142	143	184	149
85.0	86.0	48.1	79.6	44.7	76.0	41.5	71.5	37.7	66.7	34.5	67.0	38.0	39.2	69.0	42.0
90.0	16.3	4.50	15.8	4.40	15.0	4.10	14.0	4.00	13.0	3.90	13.0	3.90	4.40	14.2	4.20
95.0	11.7	4.70	11.5	4.70	11.7	4.80	11.7	4.80	11.5	4.80	11.5	4.80	5.20	11.7	4.80
100.0	11.3	5.50	11.3	5.60	11.3	5.60	11.3	5.70	11.2	5.60	11.2	5.60	6.10	11.4	5.70
105.0	11.3	6.40	11.3	6.40	11.3	6.50	11.3	6.60	11.2	6.50	11.2	6.50	7.10	11.4	6.60
110.0	11.4	7.30	11.4	7.30	11.4	7.40	11.5	7.40	11.4	7.40	11.4	7.40	8.00	11.5	7.50
115.0	11.7	8.10	11.5	8.10	11.7	8.29	11.8	8.29	11.8	8.29	11.8	8.29	8.90	12.0	8.40
120.0	12.2	8.90	12.0	9.00	12.1	9.09	12.2	9.09	12.1	9.09	12.1	9.09	9.90	12.4	9.20
125.0	12.9	9.80	12.5	9.80	12.5	9.90	12.7	10.0	12.6	9.90	12.6	9.90	10.7	12.8	10.1
130.0	13.2	10.5	13.0	10.5	13.0	10.7	13.0	10.7	13.0	10.7	13.0	10.8	11.5	13.3	10.9
135.0	14.0	11.4	13.5	11.4	13.5	11.5	13.6	11.4	13.5	11.5	13.6	11.5	12.4	13.9	11.5
140.0	14.1	12.1	13.9	12.1	14.0	12.2	14.1	12.1	14.0	12.2	14.1	12.4	13.0	14.5	12.4
145.0	14.9	12.8	14.3	12.8	14.5	12.9	14.5	12.8	14.4	12.8	14.5	13.2	14.0	15.0	13.0
150.0	15.2	13.4	14.8	13.3	15.0	13.5	15.0	13.4	14.9	13.4	15.0	13.7	14.3	15.4	13.6
155.0	15.5	14.1	15.2	13.9	15.4	14.1	15.2	13.9	15.2	14.0	15.2	14.3	15.2	15.8	14.1
160.0	15.9	14.5	15.7	14.4	15.6	14.5	15.6	14.4	15.6	14.4	15.7	14.7	15.2	16.0	14.4
165.0	16.1	14.9	15.9	14.7	15.7	14.8	15.9	14.7	15.9	14.8	15.8	14.8	15.5	16.1	14.7
170.0	16.2	15.0	16.0	15.0	15.9	15.0	16.1	15.0	16.0	15.0	16.0	15.0	15.8	16.1	15.0
175.0	16.3	15.2	16.1	15.2	16.0	15.2	16.3	15.2	16.1	15.2	16.1	15.2	16.0	16.1	15.2
180.0	16.3	15.5	16.0	15.5	16.0	15.4	16.2	15.4	16.0	15.5	16.1	15.4	16.4	16.0	15.5

Test System:
Temperature:25.3'C
Operators:
Test Date:03-21-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 84Ra. 1.1% Flicker. 31.2 Temp

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME: Office Standart 82Ra 4000K 40W Opal		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 4135	DIMENSION: 595x595x20	SERIAL No.:

UNIT: cd

C(deg) γ (deg)	225	240	255	270	285	300	315	330	345
0.0	1800	1801	1798	1797	1798	1798	1798	1799	1798
5.0	1793	1790	1792	1790	1791	1790	1792	1791	1793
10.0	1767	1763	1768	1764	1768	1766	1770	1766	1769
15.0	1726	1720	1728	1721	1730	1723	1730	1722	1729
20.0	1668	1661	1672	1666	1674	1666	1674	1665	1673
25.0	1595	1587	1599	1592	1601	1593	1602	1591	1600
30.0	1510	1498	1516	1502	1520	1505	1519	1503	1516
35.0	1411	1401	1418	1406	1422	1407	1421	1406	1420
40.0	1301	1290	1309	1296	1312	1296	1312	1294	1309
45.0	1184	1166	1192	1173	1196	1175	1195	1173	1193
50.0	1055	1040	1064	1047	1068	1048	1067	1046	1065
55.0	919	902	928	908	932	911	932	909	929
60.0	779	757	788	764	792	766	792	765	790
65.0	630	610	639	617	644	619	644	618	642
70.0	478	457	486	463	491	465	491	464	489
75.0	329	305	337	311	341	313	341	312	340
80.0	188	156	189	161	189	162	189	161	188
85.0	75.0	47.7	80.1	50.3	82.3	50.5	81.4	48.8	80.0
90.0	15.2	4.30	15.9	4.10	15.6	3.90	15.0	3.90	15.0
95.0	11.7	4.80	11.8	4.70	11.7	4.70	11.7	4.60	11.7
100.0	11.4	5.70	11.4	5.60	11.3	5.60	11.2	5.50	11.3
105.0	11.3	6.50	11.3	6.50	11.3	6.40	11.2	6.40	11.2
110.0	11.5	7.40	11.8	7.40	11.4	7.20	11.4	7.20	11.4
115.0	11.9	8.29	11.8	8.20	11.7	8.10	11.5	8.10	11.7
120.0	12.3	9.09	12.2	9.09	12.1	8.90	12.0	8.90	12.1
125.0	12.7	9.90	12.6	9.90	12.6	9.70	12.4	9.70	12.5
130.0	13.2	10.7	13.0	10.7	13.0	10.5	12.9	10.5	13.0
135.0	13.6	11.5	13.5	11.3	13.5	11.4	13.4	11.3	13.5
140.0	14.1	12.1	13.9	12.0	14.0	12.0	13.9	12.0	14.0
145.0	14.5	12.7	14.3	12.7	14.5	12.7	14.4	12.6	14.5
150.0	15.0	13.2	14.7	13.3	14.9	13.3	14.8	13.3	14.9
155.0	15.2	13.7	15.2	13.7	15.2	13.7	15.2	13.9	15.4
160.0	15.5	14.4	15.5	14.3	15.6	14.3	15.5	14.5	15.7
165.0	15.8	14.7	15.7	14.7	15.8	14.5	15.8	14.9	16.0
170.0	16.0	15.0	15.9	15.0	16.0	14.9	15.9	15.0	16.0
175.0	16.1	15.2	16.0	15.4	16.0	15.0	16.0	15.2	16.1
180.0	16.1	15.5	16.0	15.7	16.0	15.4	16.1	15.5	16.0

Test System:
Temperature:25.3'C
Operators:
Test Date:03-21-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: 84Ra. 1.1% Flicker. 31.2 Temp