

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P333903

Luminaire Tested: **SA2XXRDP-C865D930-4F0-1E-UDD-F**

Issue Date: 10/11/2019

Test Information

Test Method: LM-79-08
Report Number: P333903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/11/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-C865D930-4F0-1E-UDD-F
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 865 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

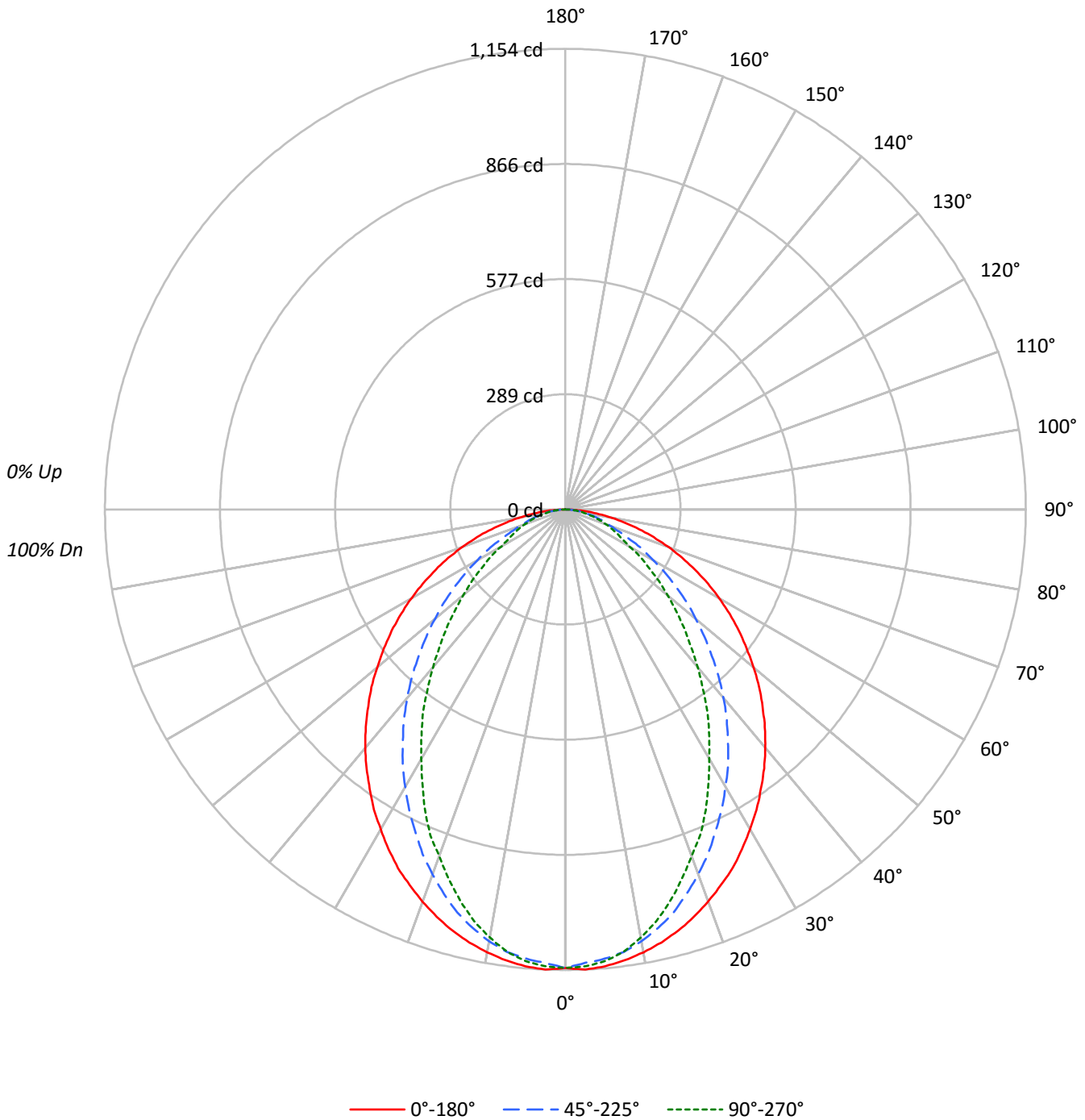
Lumens per Lamp: N/A
Luminaire Lumens: 2362.8 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86	
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74	74	74	74	
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64	64	
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55	55	55	55	
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49	49	49	
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43	
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39	39	39	39	
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35	35	35	35	
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32	32	32	32	
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	29	29	29	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18550	18550	18550
5°	18621	18318	18418
10°	18477	18018	17864
15°	18265	17483	16980
20°	17971	16722	15881
25°	17671	15855	14818
30°	17251	14965	13453
35°	16845	13996	12254
40°	16436	12994	10869
45°	15954	11871	9615
50°	15460	10733	8382
55°	14956	9512	7201
60°	14370	8225	5977
65°	13704	6911	5440
70°	12906	5693	5004
75°	11934	5190	4672
80°	10535	4640	4249
85°	8281	3668	3668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	4.6
10°-20°	295.6	12.5
20°-30°	415.0	17.6
30°-40°	452.4	19.1
40°-50°	415.8	17.6
50°-60°	326.5	13.8
60°-70°	212.5	9.0
70°-80°	109.4	4.6
80°-90°	27.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	818.3	34.6
0°-40°	1270.6	53.8
0°-60°	2012.9	85.2
0°-90°	2362.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1149	1144	1130	1140	1136	109
15°	1093	1081	1046	1026	1016	308
25°	992	959	890	847	832	456
35°	855	802	710	645	622	535
45°	699	629	520	446	421	540
55°	531	450	338	276	256	475
65°	359	274	181	146	142	356
75°	191	118	83	76	75	202
85°	45	23	20	20	20	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.9	1148.9	1148.9	1148.9	1148.9
2.5°	1154.1	1148.9	1137.4	1147.8	1145.8
5°	1148.9	1143.7	1130.2	1139.5	1136.4
7.5°	1139.5	1133.3	1118.7	1122.9	1117.7
10°	1127.0	1119.8	1099.0	1095.8	1089.6
12.5°	1111.4	1102.1	1074.0	1067.8	1056.3
15°	1092.7	1081.3	1045.9	1026.2	1015.8
17.5°	1070.9	1054.3	1010.6	987.7	971.1
20°	1045.9	1025.1	973.2	947.2	924.3
22.5°	1018.9	995.0	934.7	899.3	883.7
25°	991.9	958.6	890.0	847.4	831.8
27.5°	959.6	924.3	848.4	799.5	775.6
30°	925.3	885.8	802.7	749.6	721.6
32.5°	892.1	844.2	759.0	696.6	670.6
35°	854.6	801.6	710.1	644.6	621.7
37.5°	818.2	761.1	664.4	592.6	566.6
40°	779.8	717.4	616.5	542.7	515.7
42.5°	740.3	673.7	568.7	491.8	465.8
45°	698.7	629.0	519.9	446.0	421.1
47.5°	659.2	585.4	473.1	399.2	376.4
50°	615.5	541.7	427.3	355.6	333.7
52.5°	572.9	494.9	383.7	315.0	295.3
55°	531.3	450.2	337.9	275.5	255.8
57.5°	488.7	405.5	297.4	239.1	222.5
60°	445.0	361.8	254.7	201.7	185.1
62.5°	402.4	319.2	218.3	168.4	160.1
65°	358.7	274.5	180.9	145.6	142.4
67.5°	317.1	232.9	145.6	127.9	124.8
70°	273.4	192.3	120.6	110.2	106.0
72.5°	231.9	154.9	100.9	92.5	90.5
75°	191.3	118.5	83.2	75.9	74.9
77.5°	150.8	84.2	65.5	61.3	59.3
80°	113.3	60.3	49.9	45.7	45.7
82.5°	79.0	40.5	34.3	32.2	32.2
85°	44.7	22.9	19.8	19.8	19.8
87.5°	16.6	8.3	8.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)