

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: P333881

Luminaire Tested: **SA2XXRDP-C485D830-4F0-1E-UDD-F**

Issue Date: 10/11/2019

Test Information

Test Method: LM-79-08
Report Number: P333881
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-C485D830-4F0-1E-UDD-F
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 485 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

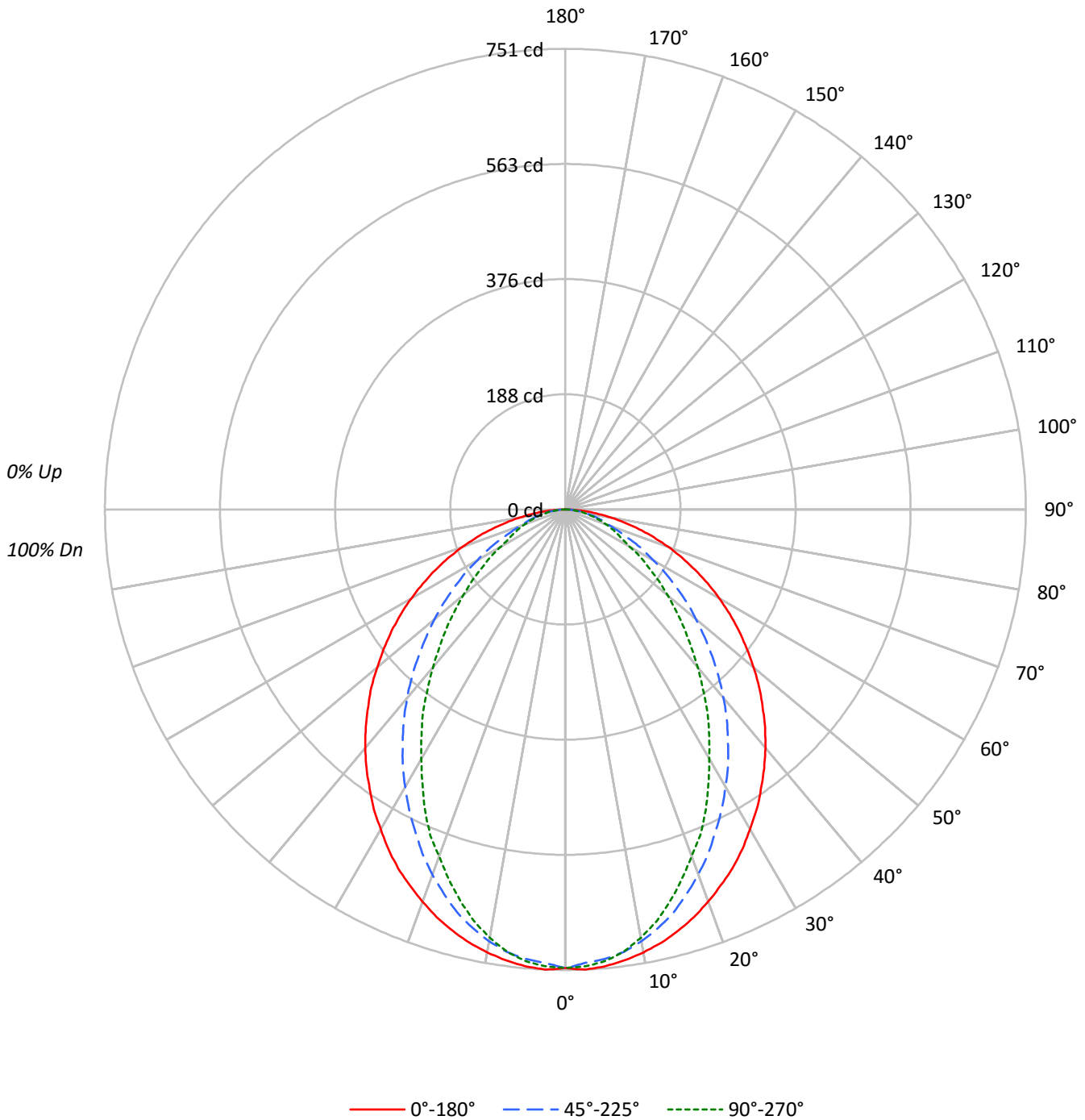
Lumens per Lamp: N/A
Luminaire Lumens: 1538.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12074	12074	12074
5°	12120	11922	11989
10°	12027	11727	11629
15°	11890	11380	11052
20°	11698	10885	10337
25°	11501	10320	9645
30°	11229	9741	8757
35°	10965	9110	7977
40°	10699	8458	7076
45°	10385	7727	6259
50°	10062	6988	5456
55°	9734	6190	4687
60°	9355	5354	3891
65°	8921	4500	3542
70°	8403	3706	3257
75°	7767	3375	3038
80°	6862	3022	2771
85°	5391	2390	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	4.6
10°-20°	192.4	12.5
20°-30°	270.1	17.6
30°-40°	294.5	19.1
40°-50°	270.6	17.6
50°-60°	212.5	13.8
60°-70°	138.3	9.0
70°-80°	71.2	4.6
80°-90°	18.2	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°	532.6	34.6
0°-40°	827.1	53.8
0°-60°	1310.2	85.2
0°-90°	1538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	748	744	736	742	740	71
15°	711	704	681	668	661	200
25°	646	624	579	552	541	297
35°	556	522	462	420	405	348
45°	455	409	338	290	274	351
55°	346	293	220	179	166	309
65°	234	179	118	95	93	231
75°	124	77	54	49	49	132
85°	29	15	13	13	13	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.8	747.8	747.8	747.8	747.8
2.5°	751.2	747.8	740.4	747.2	745.8
5°	747.8	744.4	735.6	741.7	739.7
7.5°	741.7	737.7	728.2	730.9	727.5
10°	733.6	728.9	715.3	713.3	709.3
12.5°	723.5	717.4	699.1	695.0	687.6
15°	711.3	703.8	680.8	668.0	661.2
17.5°	697.1	686.2	657.8	642.9	632.1
20°	680.8	667.3	633.5	616.5	601.6
22.5°	663.2	647.7	608.4	585.4	575.3
25°	645.6	624.0	579.3	551.6	541.4
27.5°	624.7	601.6	552.2	520.4	504.9
30°	602.3	576.6	522.5	488.0	469.7
32.5°	580.7	549.5	494.0	453.4	436.5
35°	556.3	521.8	462.2	419.6	404.7
37.5°	532.6	495.4	432.5	385.8	368.8
40°	507.6	467.0	401.3	353.3	335.7
42.5°	481.9	438.5	370.2	320.1	303.2
45°	454.8	409.4	338.4	290.3	274.1
47.5°	429.1	381.0	307.9	259.9	245.0
50°	400.6	352.6	278.2	231.5	217.2
52.5°	372.9	322.1	249.7	205.1	192.2
55°	345.8	293.0	219.9	179.3	166.5
57.5°	318.1	263.9	193.6	155.7	144.8
60°	289.7	235.5	165.8	131.3	120.5
62.5°	261.9	207.8	142.1	109.6	104.2
65°	233.5	178.7	117.8	94.7	92.7
67.5°	206.4	151.6	94.7	83.2	81.2
70°	178.0	125.2	78.5	71.7	69.0
72.5°	150.9	100.8	65.6	60.2	58.9
75°	124.5	77.2	54.1	49.4	48.7
77.5°	98.1	54.8	42.6	39.9	38.6
80°	73.8	39.3	32.5	29.8	29.8
82.5°	51.4	26.4	22.3	21.0	21.0
85°	29.1	14.9	12.9	12.9	12.9
87.5°	10.8	5.4	5.4	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)