

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: P333885

Luminaire Tested: **SA2XXRDP-C290D835-4F0-1E-UDD-F**

Issue Date: 10/11/2019

Test Information

Test Method: LM-79-08
Report Number: P333885
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-C290D835-4F0-1E-UDD-F
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 290 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

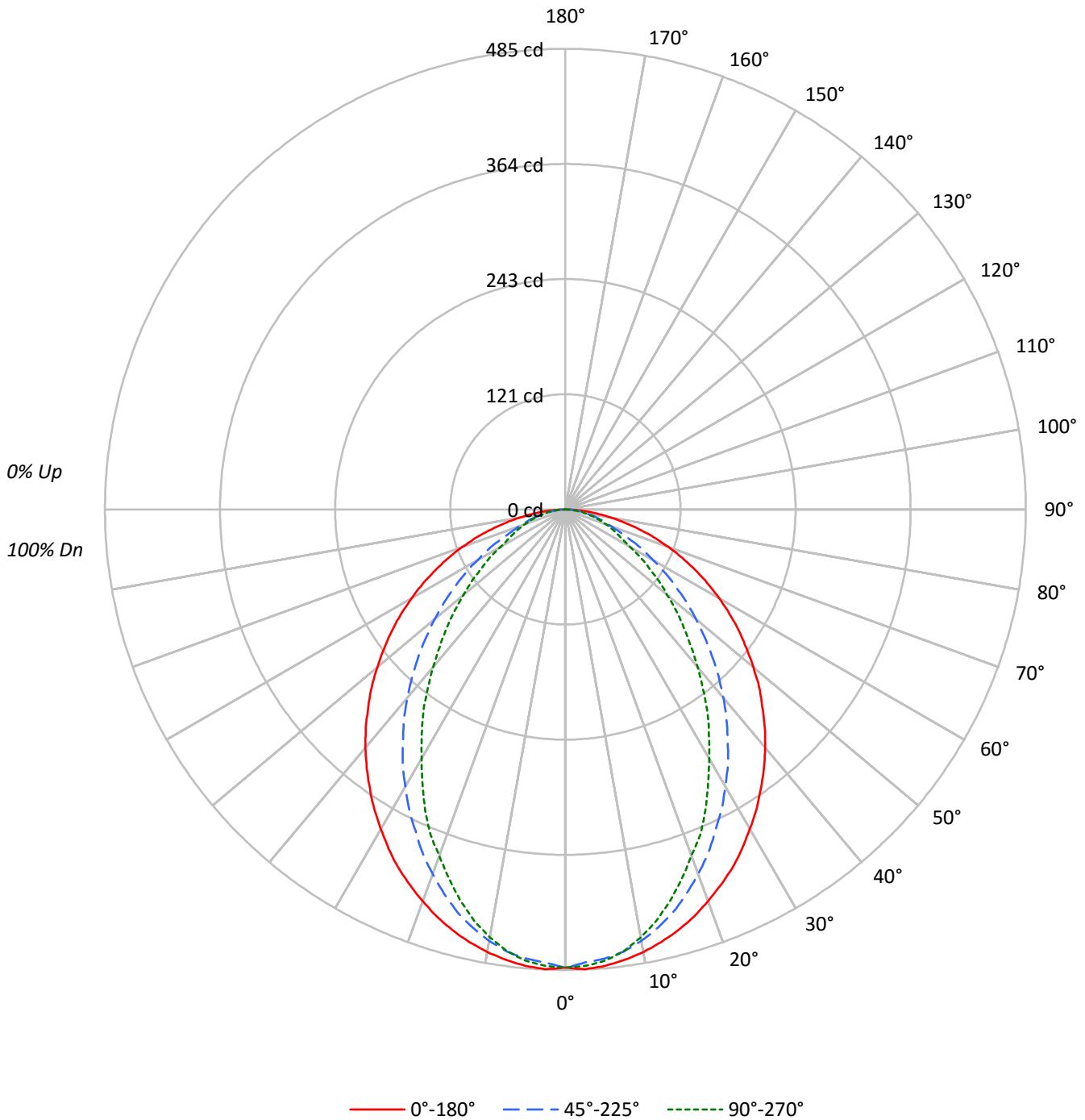
Lumens per Lamp: N/A
Luminaire Lumens: 992.3 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 11.6
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									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	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	100	100	100	100	100	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	86	86	86	86	86	86	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	74	74	74	74	74	74	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	64	64	64	64	64	64	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	55	55	55	55	55	55	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	49	49	49	49	49	49	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	43	43	43	43	43	43	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	39	39	39	39	39	39	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	35	35	35	35	35	35	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	32	32	32	32	32	32	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	29	29	29	29	29	29	29	29	29	29															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7790	7790	7790
5°	7820	7692	7734
10°	7760	7566	7502
15°	7671	7341	7131
20°	7546	7022	6670
25°	7420	6657	6223
30°	7245	6285	5649
35°	7074	5878	5146
40°	6903	5457	4565
45°	6699	4985	4037
50°	6493	4509	3522
55°	6280	3994	3023
60°	6035	3455	2509
65°	5754	2904	2285
70°	5419	2389	2101
75°	5009	2177	1959
80°	4426	1953	1785
85°	3483	1538	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	4.6
10°-20°	124.1	12.5
20°-30°	174.3	17.6
30°-40°	190.0	19.1
40°-50°	174.6	17.6
50°-60°	137.1	13.8
60°-70°	89.2	9.0
70°-80°	46.0	4.6
80°-90°	11.7	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°	343.6	34.6
0°-40°	533.6	53.8
0°-60°	845.3	85.2
0°-90°	992.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	482	480	475	478	477	46
15°	459	454	439	431	427	129
25°	416	403	374	356	349	192
35°	359	337	298	271	261	225
45°	293	264	218	187	177	227
55°	223	189	142	116	107	199
65°	151	115	76	61	60	149
75°	80	50	35	32	31	85
85°	19	10	8	8	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	482.5	482.5	482.5	482.5	482.5
2.5°	484.7	482.5	477.7	482.0	481.2
5°	482.5	480.3	474.6	478.5	477.2
7.5°	478.5	475.9	469.8	471.6	469.4
10°	473.3	470.2	461.5	460.2	457.6
12.5°	466.7	462.8	451.0	448.4	443.6
15°	458.9	454.1	439.2	430.9	426.6
17.5°	449.7	442.7	424.4	414.8	407.8
20°	439.2	430.5	408.7	397.8	388.2
22.5°	427.9	417.8	392.5	377.7	371.1
25°	416.5	402.6	373.7	355.8	349.3
27.5°	403.0	388.2	356.3	335.8	325.7
30°	388.6	372.0	337.1	314.8	303.0
32.5°	374.6	354.5	318.7	292.5	281.6
35°	358.9	336.6	298.2	270.7	261.1
37.5°	343.6	319.6	279.0	248.9	238.0
40°	327.5	301.3	258.9	227.9	216.6
42.5°	310.9	282.9	238.8	206.5	195.6
45°	293.4	264.2	218.3	187.3	176.8
47.5°	276.8	245.8	198.7	167.7	158.1
50°	258.5	227.5	179.5	149.3	140.2
52.5°	240.6	207.8	161.1	132.3	124.0
55°	223.1	189.1	141.9	115.7	107.4
57.5°	205.2	170.3	124.9	100.4	93.4
60°	186.9	151.9	107.0	84.7	77.7
62.5°	169.0	134.0	91.7	70.7	67.2
65°	150.6	115.3	76.0	61.1	59.8
67.5°	133.2	97.8	61.1	53.7	52.4
70°	114.8	80.8	50.6	46.3	44.5
72.5°	97.4	65.1	42.4	38.9	38.0
75°	80.3	49.8	34.9	31.9	31.4
77.5°	63.3	35.4	27.5	25.8	24.9
80°	47.6	25.3	21.0	19.2	19.2
82.5°	33.2	17.0	14.4	13.5	13.5
85°	18.8	9.6	8.3	8.3	8.3
87.5°	7.0	3.5	3.5	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)