

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: P243456

Luminaire Tested: **S124DR-H795D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-84)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-H795D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2506.4 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

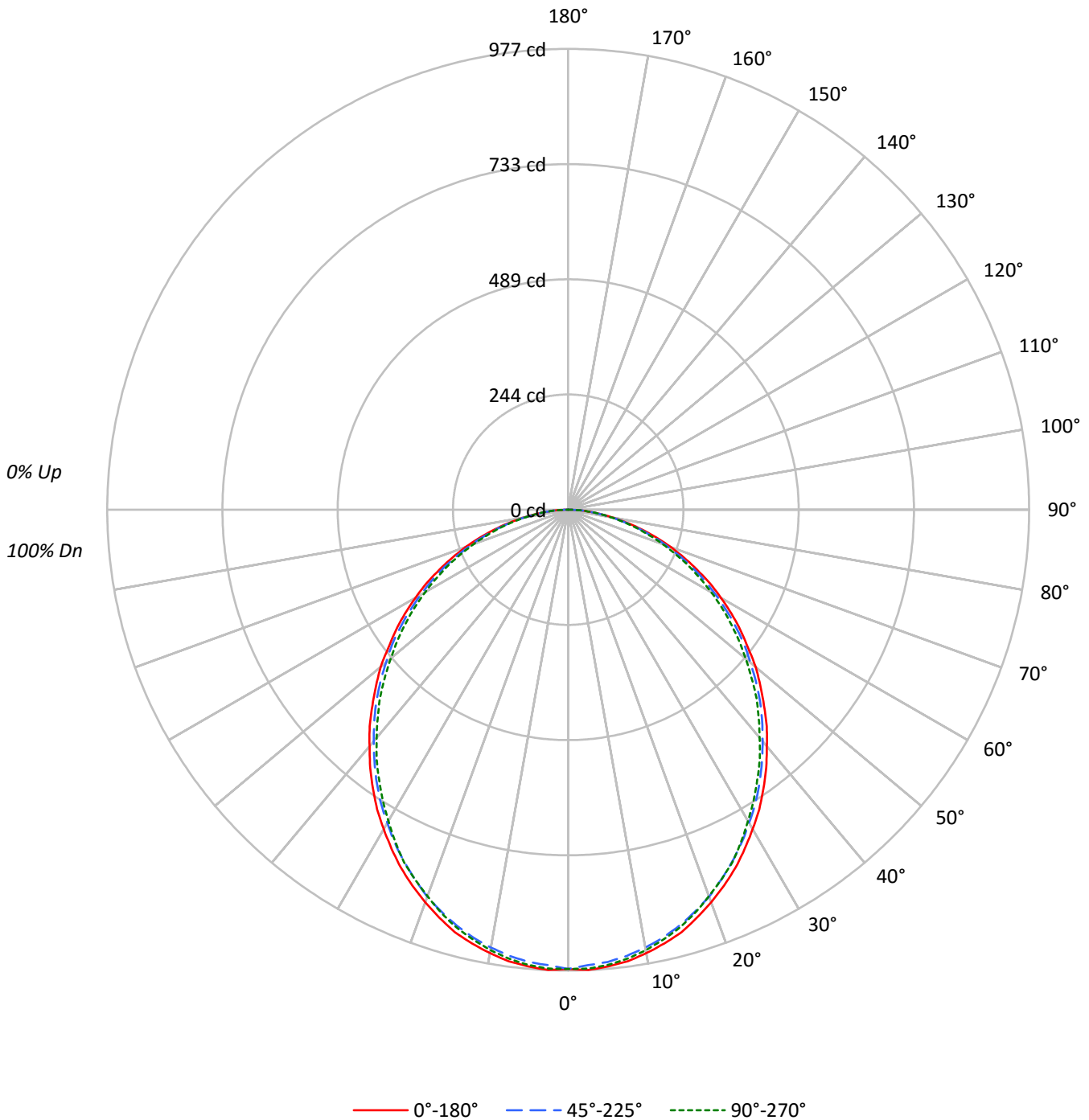
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8654	8654	8654
5°	8673	8588	8644
10°	8616	8509	8558
15°	8536	8398	8435
20°	8378	8258	8250
25°	8220	8073	8081
30°	8025	7870	7822
35°	7831	7676	7582
40°	7602	7437	7327
45°	7379	7229	7090
50°	7176	6967	6793
55°	6912	6727	6518
60°	6647	6421	6224
65°	6331	6114	5914
70°	5991	5723	5538
75°	5523	5306	5141
80°	4868	4786	4663
85°	4284	4284	4202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.7
10°-20°	258.8	10.3
20°-30°	381.1	15.2
30°-40°	443.4	17.7
40°-50°	443.6	17.7
50°-60°	388.0	15.5
60°-70°	288.1	11.5
70°-80°	164.2	6.6
80°-90°	47.3	1.9
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°	731.7	29.2
0°-40°	1175.1	46.9
0°-60°	2006.7	80.1
0°-90°	2506.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2506.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	972	970	962	970	969	92
15°	928	923	913	918	917	261
25°	838	834	823	826	824	386
35°	722	715	707	701	699	451
45°	587	585	575	566	564	453
55°	446	443	434	425	421	399
65°	301	299	291	284	281	299
75°	161	158	154	151	150	171
85°	42	41	42	40	41	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.6	973.6	973.6	973.6	973.6
2.5°	976.8	974.4	966.5	974.4	973.6
5°	972.0	970.4	962.5	969.6	968.8
7.5°	965.7	962.5	953.8	960.9	960.1
10°	954.6	952.2	942.7	949.8	948.2
12.5°	941.9	939.5	929.2	934.8	933.2
15°	927.6	922.9	912.6	918.1	916.6
17.5°	907.0	903.9	893.6	898.3	896.0
20°	885.7	881.7	873.0	873.8	872.2
22.5°	862.7	858.7	848.4	851.6	848.4
25°	838.1	834.2	823.1	825.5	823.9
27.5°	810.4	806.4	796.1	796.9	793.8
30°	781.9	777.1	766.8	766.0	762.1
32.5°	753.4	748.6	738.3	735.1	731.2
35°	721.7	715.3	707.4	701.1	698.7
37.5°	689.2	686.0	674.1	670.2	667.0
40°	655.1	652.0	640.9	635.3	631.4
42.5°	622.7	618.7	608.4	600.5	597.3
45°	587.0	584.6	575.1	566.4	564.0
47.5°	552.2	551.4	539.5	530.8	526.8
50°	518.9	514.1	503.8	495.9	491.2
52.5°	480.1	479.3	470.6	460.3	456.3
55°	446.0	442.8	434.1	424.6	420.6
57.5°	410.4	408.8	397.7	389.8	385.8
60°	373.9	370.7	361.2	354.1	350.1
62.5°	339.1	335.1	326.4	319.2	315.3
65°	301.0	298.7	290.7	284.4	281.2
67.5°	265.4	262.2	254.3	248.7	245.6
70°	230.5	225.8	220.2	215.5	213.1
72.5°	195.7	191.7	187.0	183.8	180.6
75°	160.8	157.6	154.5	151.3	149.7
77.5°	127.5	124.4	122.8	122.0	120.4
80°	95.1	93.5	93.5	92.7	91.1
82.5°	67.3	65.8	65.8	65.8	65.0
85°	42.0	41.2	42.0	40.4	41.2
87.5°	19.8	19.8	20.6	19.8	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)