

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: P242601

Luminaire Tested: **S124DR-S795D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-S795D830-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3019.2 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

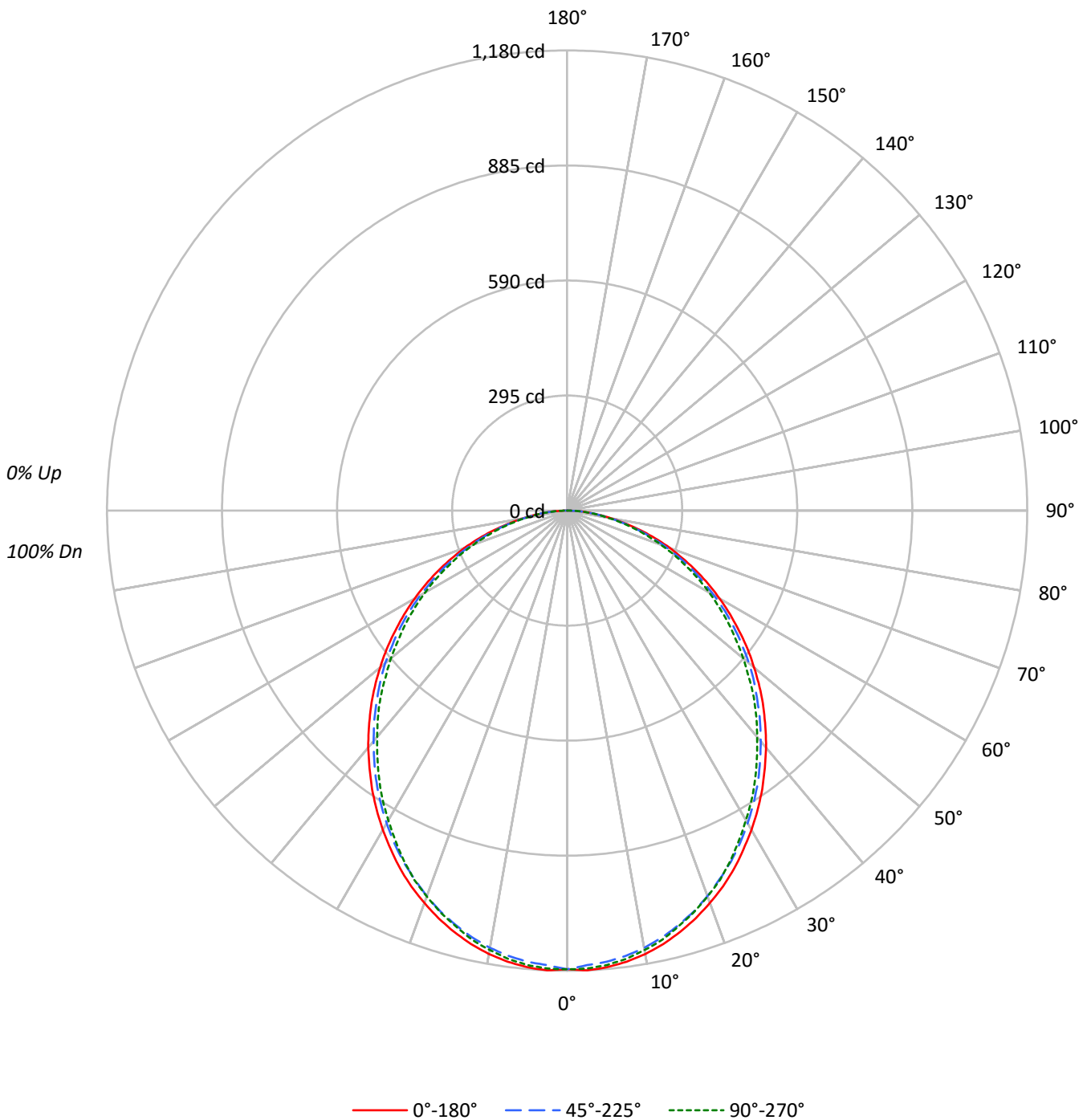
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	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	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10456	10456	10456
5°	10488	10361	10437
10°	10421	10277	10328
15°	10296	10131	10157
20°	10128	9950	9959
25°	9937	9743	9716
30°	9704	9500	9413
35°	9461	9246	9123
40°	9209	8957	8793
45°	8945	8673	8507
50°	8654	8420	8159
55°	8341	8093	7829
60°	8027	7724	7490
65°	7673	7374	7078
70°	7274	6908	6638
75°	6670	6343	6182
80°	5933	5692	5549
85°	5191	4997	4906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.7
10°-20°	312.4	10.3
20°-30°	459.7	15.2
30°-40°	534.4	17.7
40°-50°	534.3	17.7
50°-60°	467.4	15.5
60°-70°	347.0	11.5
70°-80°	196.9	6.5
80°-90°	56.4	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°	882.9	29.2
0°-40°	1417.3	46.9
0°-60°	2419.0	80.1
0°-90°	3019.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1175	1172	1161	1172	1170	112
15°	1119	1115	1101	1106	1104	315
25°	1013	1007	993	994	991	466
35°	872	865	852	846	841	545
45°	712	705	690	680	677	549
55°	538	535	522	511	505	482
65°	365	360	351	341	336	361
75°	194	190	185	181	180	206
85°	51	51	49	49	48	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.3	1176.3	1176.3	1176.3	1176.3
2.5°	1180.1	1177.2	1166.9	1176.3	1175.4
5°	1175.4	1171.6	1161.2	1171.6	1169.7
7.5°	1166.9	1163.1	1151.8	1160.3	1159.3
10°	1154.6	1150.8	1138.6	1146.1	1144.2
12.5°	1138.6	1134.8	1121.6	1130.1	1127.3
15°	1118.8	1115.0	1100.9	1106.5	1103.7
17.5°	1096.2	1091.5	1078.3	1082.0	1080.2
20°	1070.7	1066.0	1051.9	1054.7	1052.8
22.5°	1043.4	1036.8	1022.7	1028.3	1024.5
25°	1013.2	1006.6	993.4	994.4	990.6
27.5°	979.3	972.7	960.5	958.6	953.9
30°	945.4	937.8	925.6	921.8	917.1
32.5°	909.6	903.0	889.8	885.0	880.3
35°	871.9	865.3	852.1	845.5	840.7
37.5°	832.3	826.6	812.5	805.9	799.3
40°	793.6	786.1	771.9	762.5	757.8
42.5°	752.2	748.4	732.4	721.0	718.2
45°	711.6	705.0	689.9	679.6	676.7
47.5°	669.2	664.5	650.4	639.0	631.5
50°	625.8	622.1	608.9	595.7	590.0
52.5°	583.4	578.7	564.6	553.3	545.7
55°	538.2	535.4	522.2	510.9	505.2
57.5°	495.8	493.0	479.8	468.4	462.8
60°	451.5	446.8	434.5	426.0	421.3
62.5°	408.1	404.4	391.2	383.6	378.9
65°	364.8	360.1	350.6	341.2	336.5
67.5°	320.5	316.7	307.3	297.8	296.9
70°	279.9	273.3	265.8	258.3	255.4
72.5°	236.6	230.0	224.3	218.7	215.8
75°	194.2	189.5	184.7	181.0	180.0
77.5°	152.7	150.8	146.1	145.2	142.3
80°	115.9	113.1	111.2	109.3	108.4
82.5°	80.1	79.2	79.2	78.2	77.3
85°	50.9	50.9	49.0	49.0	48.1
87.5°	24.5	23.6	22.6	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)