

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: P242615

Luminaire Tested: **S124DR-S795D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242615
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-S795D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2611.6 lumens
Efficiency: N/A
Efficacy: 98.9 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

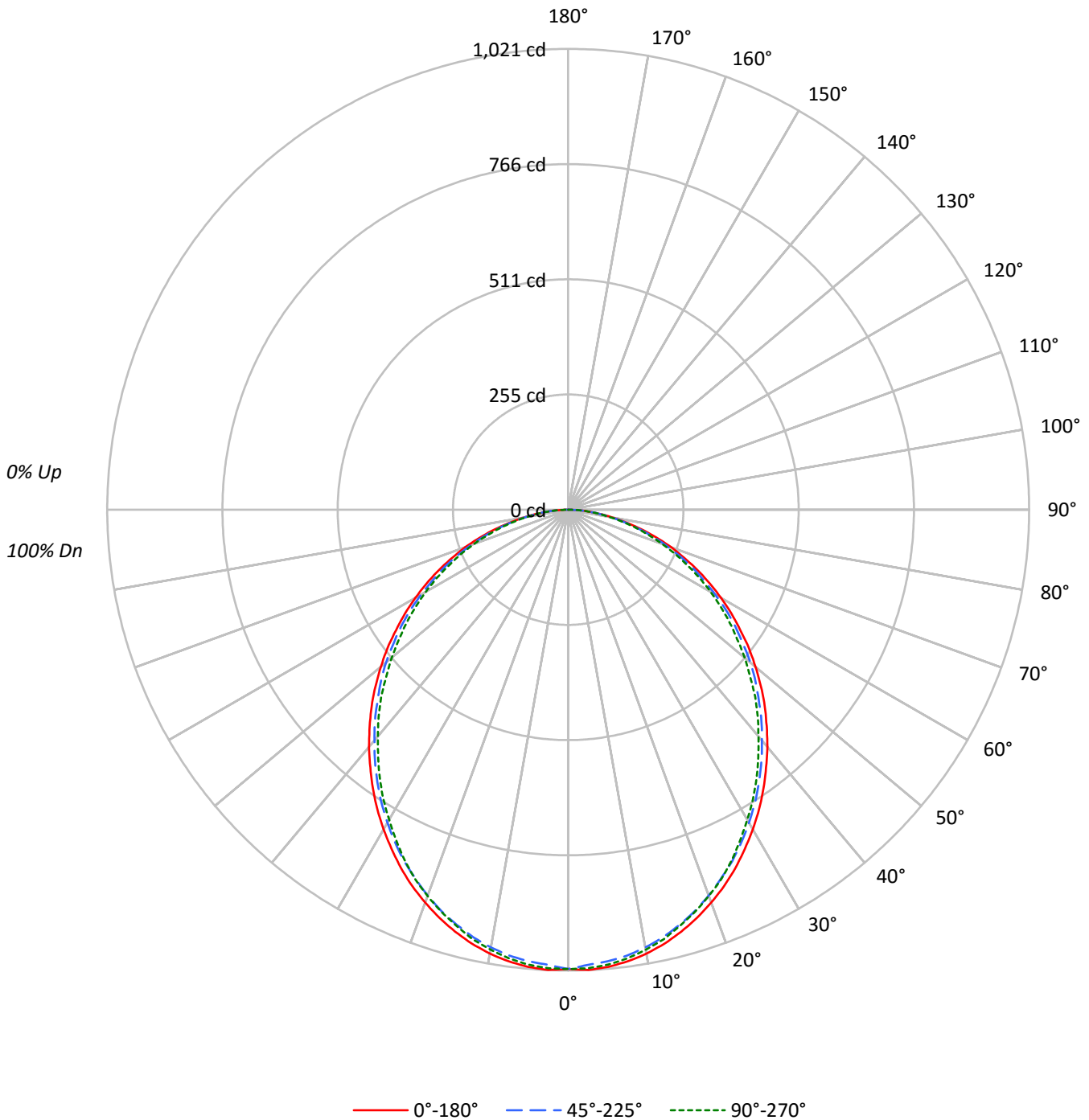
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9044	9044	9044
5°	9072	8963	9028
10°	9014	8890	8934
15°	8906	8764	8786
20°	8761	8607	8615
25°	8596	8428	8404
30°	8393	8217	8142
35°	8184	7997	7891
40°	7966	7748	7606
45°	7739	7502	7359
50°	7487	7284	7058
55°	7214	7000	6772
60°	6942	6683	6478
65°	6636	6379	6123
70°	6292	5975	5741
75°	5770	5488	5347
80°	5134	4924	4802
85°	4488	4324	4243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	3.7
10°-20°	270.2	10.3
20°-30°	397.6	15.2
30°-40°	462.2	17.7
40°-50°	462.2	17.7
50°-60°	404.3	15.5
60°-70°	300.1	11.5
70°-80°	170.3	6.5
80°-90°	48.8	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°	763.7	29.2
0°-40°	1226.0	46.9
0°-60°	2092.4	80.1
0°-90°	2611.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1017	1013	1004	1013	1012	96
15°	968	964	952	957	955	273
25°	876	871	859	860	857	403
35°	754	748	737	731	727	472
45°	616	610	597	588	585	475
55°	466	463	452	442	437	417
65°	316	311	303	295	291	312
75°	168	164	160	156	156	178
85°	44	44	42	42	42	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.5	1017.5	1017.5	1017.5	1017.5
2.5°	1020.8	1018.3	1009.3	1017.5	1016.7
5°	1016.7	1013.4	1004.5	1013.4	1011.8
7.5°	1009.3	1006.1	996.3	1003.6	1002.8
10°	998.7	995.5	984.9	991.4	989.8
12.5°	984.9	981.6	970.2	977.5	975.1
15°	967.8	964.5	952.3	957.2	954.7
17.5°	948.2	944.1	932.7	936.0	934.3
20°	926.2	922.1	909.9	912.3	910.7
22.5°	902.5	896.8	884.6	889.5	886.2
25°	876.4	870.7	859.3	860.1	856.9
27.5°	847.1	841.4	830.8	829.2	825.1
30°	817.7	811.2	800.6	797.4	793.3
32.5°	786.8	781.1	769.6	765.6	761.5
35°	754.2	748.4	737.0	731.3	727.2
37.5°	719.9	715.0	702.8	697.1	691.4
40°	686.5	680.0	667.7	659.6	655.5
42.5°	650.6	647.3	633.5	623.7	621.3
45°	615.6	609.8	596.8	587.8	585.4
47.5°	578.9	574.8	562.6	552.8	546.3
50°	541.4	538.1	526.7	515.3	510.4
52.5°	504.7	500.6	488.4	478.6	472.1
55°	465.5	463.1	451.7	441.9	437.0
57.5°	428.8	426.4	415.0	405.2	400.3
60°	390.5	386.5	375.9	368.5	364.4
62.5°	353.0	349.8	338.3	331.8	327.8
65°	315.5	311.4	303.3	295.1	291.1
67.5°	277.2	273.9	265.8	257.6	256.8
70°	242.1	236.4	229.9	223.4	220.9
72.5°	204.6	198.9	194.0	189.1	186.7
75°	168.0	163.9	159.8	156.5	155.7
77.5°	132.1	130.4	126.4	125.6	123.1
80°	100.3	97.8	96.2	94.6	93.8
82.5°	69.3	68.5	68.5	67.7	66.9
85°	44.0	44.0	42.4	42.4	41.6
87.5°	21.2	20.4	19.6	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)