

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: P242701

Luminaire Tested: **S124RDR-S1195D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3542.9 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

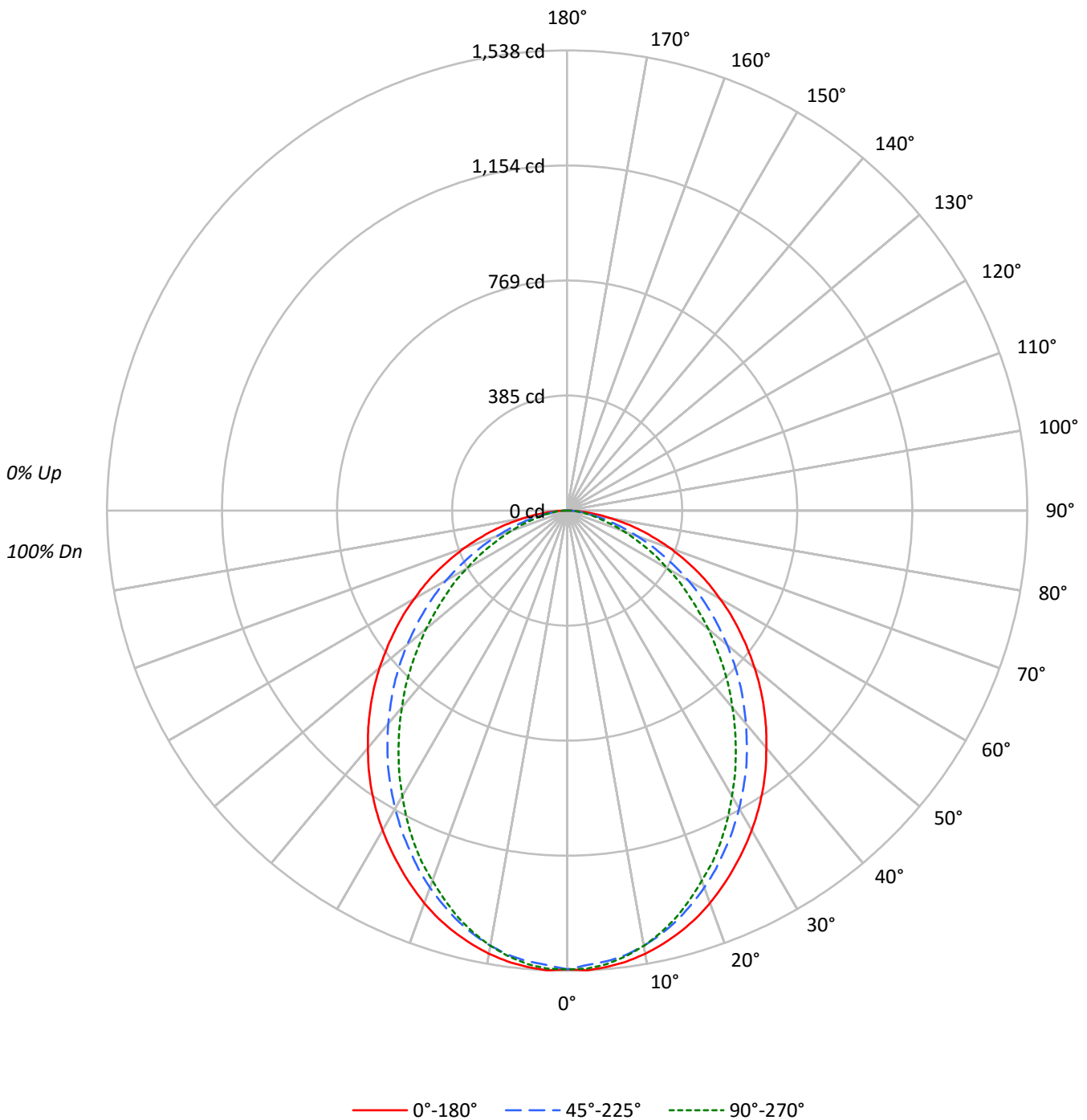
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49					47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13629	13629	13629
5°	13661	13493	13577
10°	13575	13331	13331
15°	13419	13052	12954
20°	13205	12683	12449
25°	12932	12252	11941
30°	12666	11797	11304
35°	12371	11327	10664
40°	12016	10790	9972
45°	11690	10258	9268
50°	11316	9644	8524
55°	10916	9007	7715
60°	10478	8308	6887
65°	10075	7433	6074
70°	9489	6469	5156
75°	8751	5365	4193
80°	7632	4085	3844
85°	6466	3712	3468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	4.1
10°-20°	402.0	11.3
20°-30°	580.4	16.4
30°-40°	657.8	18.6
40°-50°	635.1	17.9
50°-60°	528.0	14.9
60°-70°	364.4	10.3
70°-80°	184.2	5.2
80°-90°	46.8	1.3
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°	1126.6	31.8
0°-40°	1784.4	50.4
0°-60°	2947.6	83.2
0°-90°	3542.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3542.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1531	1526	1512	1524	1522	145
15°	1458	1448	1418	1416	1408	411
25°	1318	1297	1249	1229	1218	608
35°	1140	1102	1044	1004	983	713
45°	930	886	816	758	737	717
55°	704	658	581	520	498	630
65°	479	428	353	303	289	473
75°	255	211	156	129	122	269
85°	63	40	36	34	34	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.3	1533.3	1533.3	1533.3	1533.3
2.5°	1538.0	1533.3	1520.4	1533.3	1532.2
5°	1531.0	1526.3	1512.2	1523.9	1521.6
7.5°	1520.4	1515.7	1498.1	1506.3	1502.8
10°	1504.0	1498.1	1477.0	1481.7	1477.0
12.5°	1482.9	1475.8	1450.0	1452.3	1445.3
15°	1458.2	1447.6	1418.3	1415.9	1407.7
17.5°	1430.0	1414.8	1380.7	1374.8	1363.1
20°	1396.0	1380.7	1340.8	1331.4	1316.1
22.5°	1358.4	1340.8	1297.4	1282.1	1270.3
25°	1318.5	1297.4	1249.2	1229.3	1217.5
27.5°	1277.4	1251.6	1201.1	1177.6	1161.2
30°	1234.0	1204.6	1149.4	1120.1	1101.3
32.5°	1188.2	1154.1	1096.6	1061.4	1043.8
35°	1140.0	1102.5	1043.8	1003.8	982.7
37.5°	1089.5	1050.8	986.2	942.8	921.6
40°	1035.5	996.8	929.9	880.6	859.4
42.5°	983.9	942.8	872.3	821.9	799.5
45°	929.9	886.4	816.0	758.5	737.3
47.5°	874.7	830.1	757.3	697.4	673.9
50°	818.3	772.5	697.4	638.7	616.4
52.5°	760.8	716.2	638.7	578.8	555.3
55°	704.4	657.5	581.2	520.1	497.8
57.5°	649.3	600.0	524.8	462.6	446.1
60°	589.4	542.4	467.3	406.2	387.4
62.5°	535.4	486.1	408.6	353.4	339.3
65°	479.0	428.5	353.4	302.9	288.8
67.5°	420.3	372.2	301.7	257.1	240.7
70°	365.1	315.8	248.9	210.2	198.4
72.5°	306.4	263.0	200.8	169.1	158.5
75°	254.8	211.3	156.2	129.1	122.1
77.5°	200.8	163.2	116.2	97.4	95.1
80°	149.1	115.1	79.8	76.3	75.1
82.5°	104.5	74.0	57.5	55.2	54.0
85°	63.4	39.9	36.4	34.0	34.0
87.5°	27.0	17.6	16.4	15.3	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)