

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: P243467

Luminaire Tested: **S124DR-H1195D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243467
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-H1195D835-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4766.5 lumens
Efficiency: N/A
Efficacy: 126.4 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

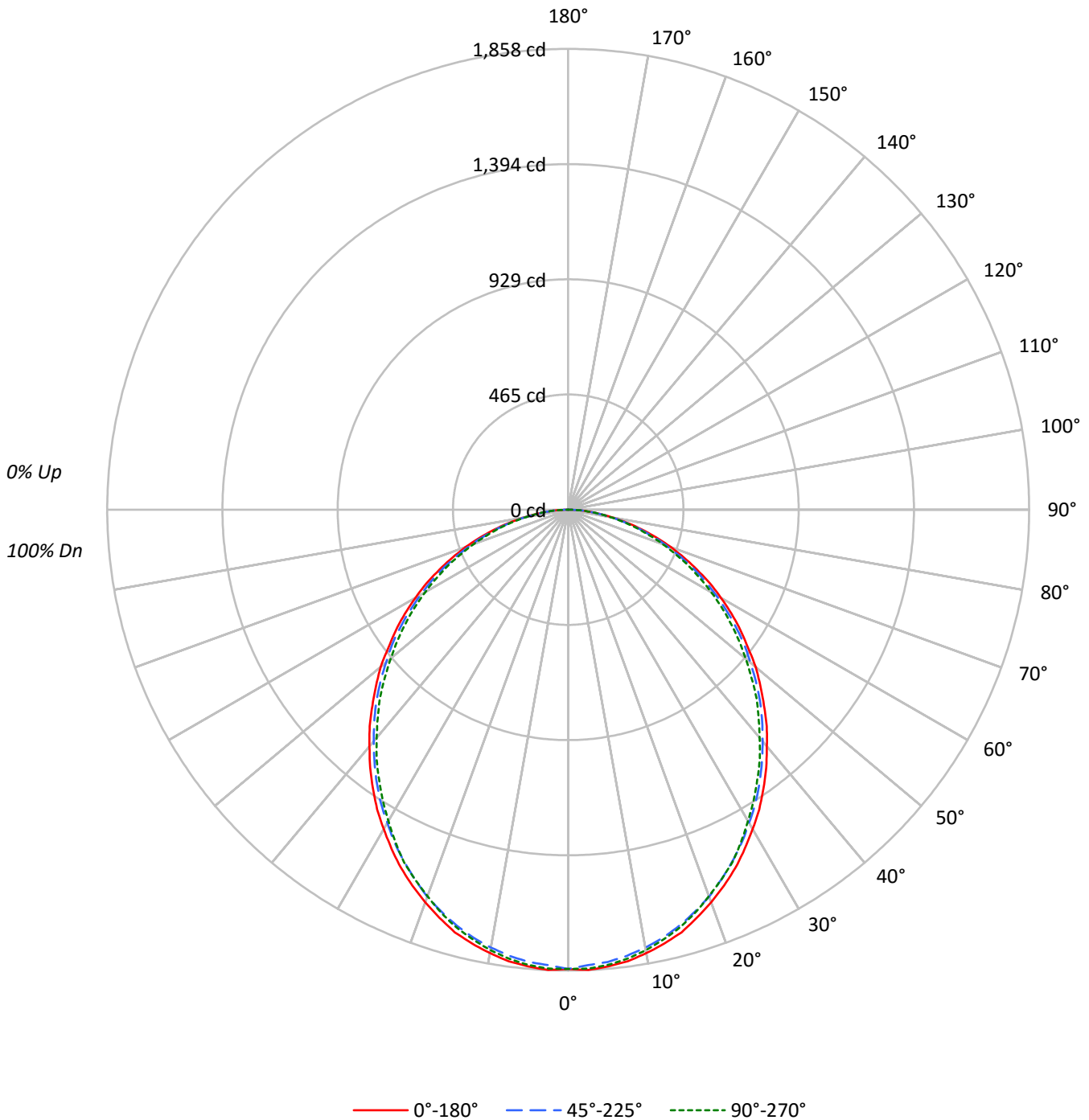
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16458	16458	16458
5°	16494	16332	16440
10°	16386	16182	16277
15°	16234	15971	16041
20°	15932	15704	15690
25°	15633	15352	15367
30°	15262	14968	14876
35°	14892	14598	14419
40°	14457	14143	13933
45°	14033	13749	13483
50°	13646	13251	12916
55°	13145	12795	12398
60°	12642	12213	11838
65°	12041	11629	11248
70°	11394	10884	10534
75°	10502	10090	9778
80°	9255	9101	8871
85°	8139	8139	7986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	3.7
10°-20°	492.2	10.3
20°-30°	724.8	15.2
30°-40°	843.3	17.7
40°-50°	843.7	17.7
50°-60°	737.8	15.5
60°-70°	548.0	11.5
70°-80°	312.2	6.6
80°-90°	89.9	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°	1391.5	29.2
0°-40°	2234.8	46.9
0°-60°	3816.3	80.1
0°-90°	4766.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1848	1846	1830	1844	1842	175
15°	1764	1755	1736	1746	1743	496
25°	1594	1586	1565	1570	1567	733
35°	1372	1360	1345	1333	1329	858
45°	1116	1112	1094	1077	1073	862
55°	848	842	826	808	800	758
65°	572	568	553	541	535	568
75°	306	300	294	288	285	324
85°	80	78	80	77	78	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.5	1851.5	1851.5	1851.5	1851.5
2.5°	1857.6	1853.0	1838.0	1853.0	1851.5
5°	1848.5	1845.5	1830.4	1844.0	1842.5
7.5°	1836.5	1830.4	1813.9	1827.4	1825.9
10°	1815.4	1810.9	1792.8	1806.3	1803.3
12.5°	1791.3	1786.7	1767.2	1777.7	1774.7
15°	1764.1	1755.1	1735.5	1746.1	1743.1
17.5°	1725.0	1719.0	1699.4	1708.4	1703.9
20°	1684.3	1676.8	1660.2	1661.7	1658.7
22.5°	1640.6	1633.1	1613.5	1619.5	1613.5
25°	1593.9	1586.4	1565.3	1569.8	1566.8
27.5°	1541.2	1533.6	1514.1	1515.6	1509.5
30°	1486.9	1477.9	1458.3	1456.8	1449.3
32.5°	1432.7	1423.7	1404.1	1398.1	1390.5
35°	1372.4	1360.4	1345.3	1333.3	1328.8
37.5°	1310.7	1304.7	1282.1	1274.5	1268.5
40°	1245.9	1239.9	1218.8	1208.2	1200.7
42.5°	1184.1	1176.6	1157.0	1142.0	1135.9
45°	1116.3	1111.8	1093.7	1077.2	1072.6
47.5°	1050.1	1048.5	1025.9	1009.4	1001.8
50°	986.8	977.7	958.2	943.1	934.0
52.5°	913.0	911.5	894.9	875.3	867.8
55°	848.2	842.2	825.6	807.5	800.0
57.5°	780.4	777.4	756.3	741.2	733.7
60°	711.1	705.1	687.0	673.4	665.9
62.5°	644.8	637.3	620.7	607.1	599.6
65°	572.5	568.0	552.9	540.8	534.8
67.5°	504.7	498.7	483.6	473.1	467.0
70°	438.4	429.4	418.8	409.8	405.3
72.5°	372.1	364.6	355.5	349.5	343.5
75°	305.8	299.8	293.8	287.7	284.7
77.5°	242.6	236.5	233.5	232.0	229.0
80°	180.8	177.8	177.8	176.3	173.3
82.5°	128.1	125.0	125.0	125.0	123.5
85°	79.8	78.3	79.8	76.8	78.3
87.5°	37.7	37.7	39.2	37.7	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)