

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: P243570

Luminaire Tested: **S124RDR-H1195D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H1195D835-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED 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: 4494.4 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

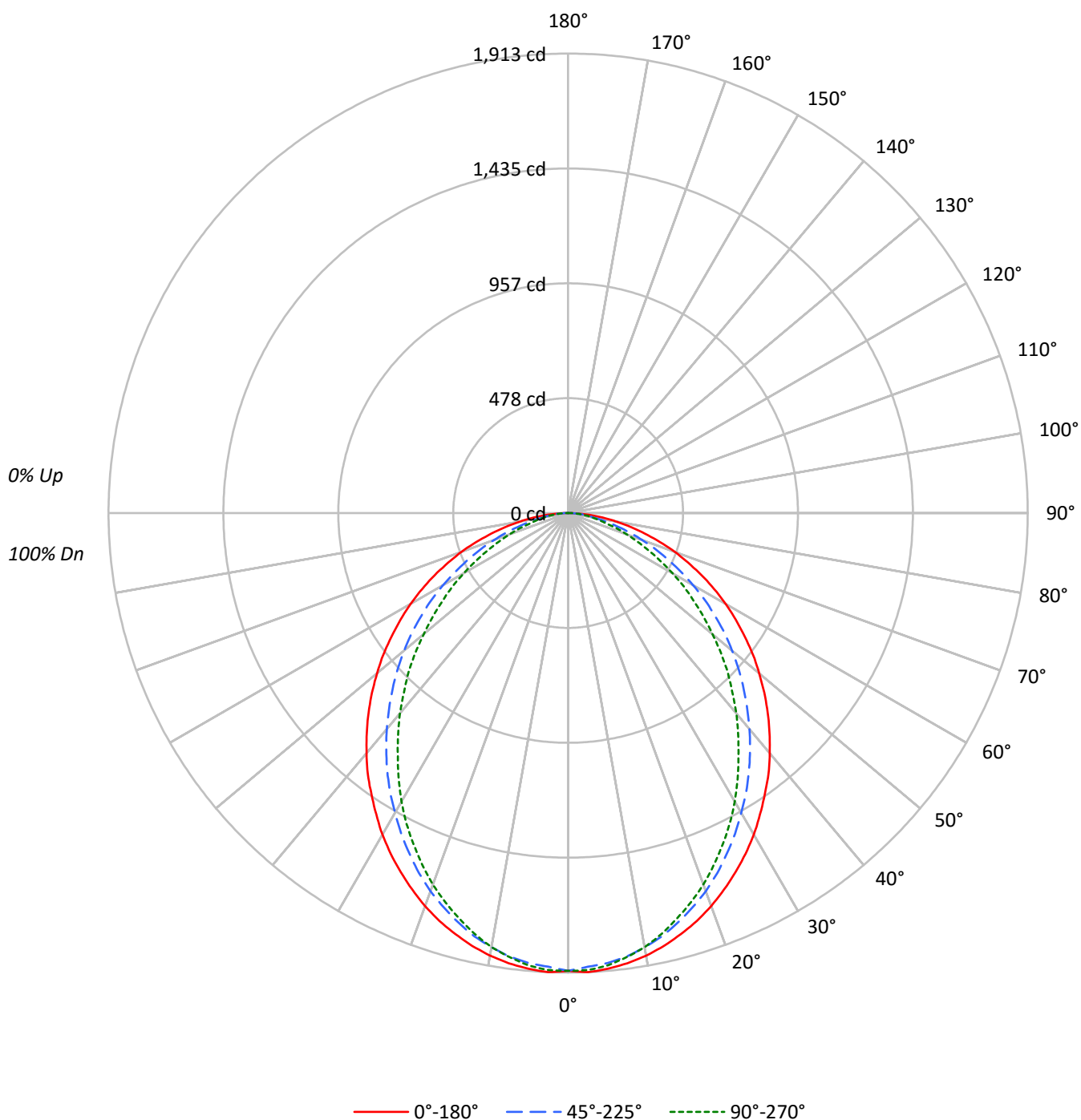
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36		
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33		
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16942	16942	16942
5°	16994	16780	16869
10°	16886	16568	16568
15°	16698	16245	16090
20°	16473	15847	15567
25°	16169	15341	14928
30°	15867	14784	14235
35°	15492	14241	13417
40°	15146	13628	12633
45°	14764	12979	11812
50°	14356	12313	10854
55°	13907	11553	9897
60°	13479	10677	8903
65°	12900	9646	7780
70°	12283	8517	6762
75°	11354	7102	5509
80°	10371	5544	5042
85°	9179	5303	5018

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	4.0
10°-20°	500.6	11.1
20°-30°	725.9	16.2
30°-40°	827.4	18.4
40°-50°	805.0	17.9
50°-60°	676.2	15.0
60°-70°	471.1	10.5
70°-80°	243.3	5.4
80°-90°	65.8	1.5
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°	1405.7	31.3
0°-40°	2233.1	49.7
0°-60°	3714.3	82.6
0°-90°	4494.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4494.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1905	1899	1881	1895	1890	181
15°	1814	1800	1765	1762	1748	512
25°	1649	1618	1564	1542	1522	760
35°	1428	1384	1312	1263	1236	894
45°	1174	1118	1032	966	940	906
55°	897	840	746	670	639	804
65°	613	554	459	392	370	607
75°	331	280	207	173	160	352
85°	90	58	52	49	49	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.0	1906.0	1906.0	1906.0	1906.0
2.5°	1913.0	1907.4	1890.5	1906.0	1904.6
5°	1904.6	1898.9	1880.6	1894.7	1890.5
7.5°	1890.5	1883.5	1862.4	1872.2	1865.2
10°	1870.8	1863.8	1835.6	1842.7	1835.6
12.5°	1845.5	1835.6	1804.7	1806.1	1794.8
15°	1814.5	1800.5	1765.3	1762.5	1748.4
17.5°	1780.8	1762.5	1721.7	1714.7	1699.2
20°	1741.4	1718.9	1675.3	1659.8	1645.7
22.5°	1696.4	1669.7	1621.8	1603.5	1585.3
25°	1648.6	1617.6	1564.2	1541.7	1522.0
27.5°	1599.3	1562.8	1505.1	1476.9	1457.3
30°	1545.9	1503.7	1440.4	1408.0	1386.9
32.5°	1486.8	1444.6	1378.5	1339.1	1312.4
35°	1427.7	1384.1	1312.4	1263.1	1236.4
37.5°	1370.0	1320.8	1243.4	1192.8	1161.9
40°	1305.3	1253.3	1174.5	1116.9	1088.7
42.5°	1240.6	1187.2	1102.8	1042.3	1011.4
45°	1174.5	1118.3	1032.5	966.3	939.6
47.5°	1107.0	1050.7	962.1	893.2	862.3
50°	1038.1	981.8	890.4	814.4	784.9
52.5°	970.6	911.5	820.1	742.7	711.7
55°	897.4	839.7	745.5	669.5	638.6
57.5°	827.1	766.6	675.2	597.8	572.5
60°	758.2	697.7	600.6	526.1	500.8
62.5°	685.0	624.5	528.9	457.2	434.6
65°	613.3	554.2	458.6	392.4	369.9
67.5°	540.1	486.7	393.9	330.6	312.3
70°	472.6	412.1	327.7	272.9	260.2
72.5°	400.9	347.4	265.9	220.8	211.0
75°	330.6	279.9	206.8	173.0	160.4
77.5°	265.9	216.6	156.1	128.0	128.0
80°	202.6	158.9	108.3	101.3	98.5
82.5°	143.5	102.7	80.2	74.6	73.1
85°	90.0	57.7	52.0	49.2	49.2
87.5°	43.6	26.7	26.7	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)