

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: P243585

Luminaire Tested: **S124RDR-H1195D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243585
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-H1195D935-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3869.7 lumens
Efficiency: N/A
Efficacy: 102.6 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

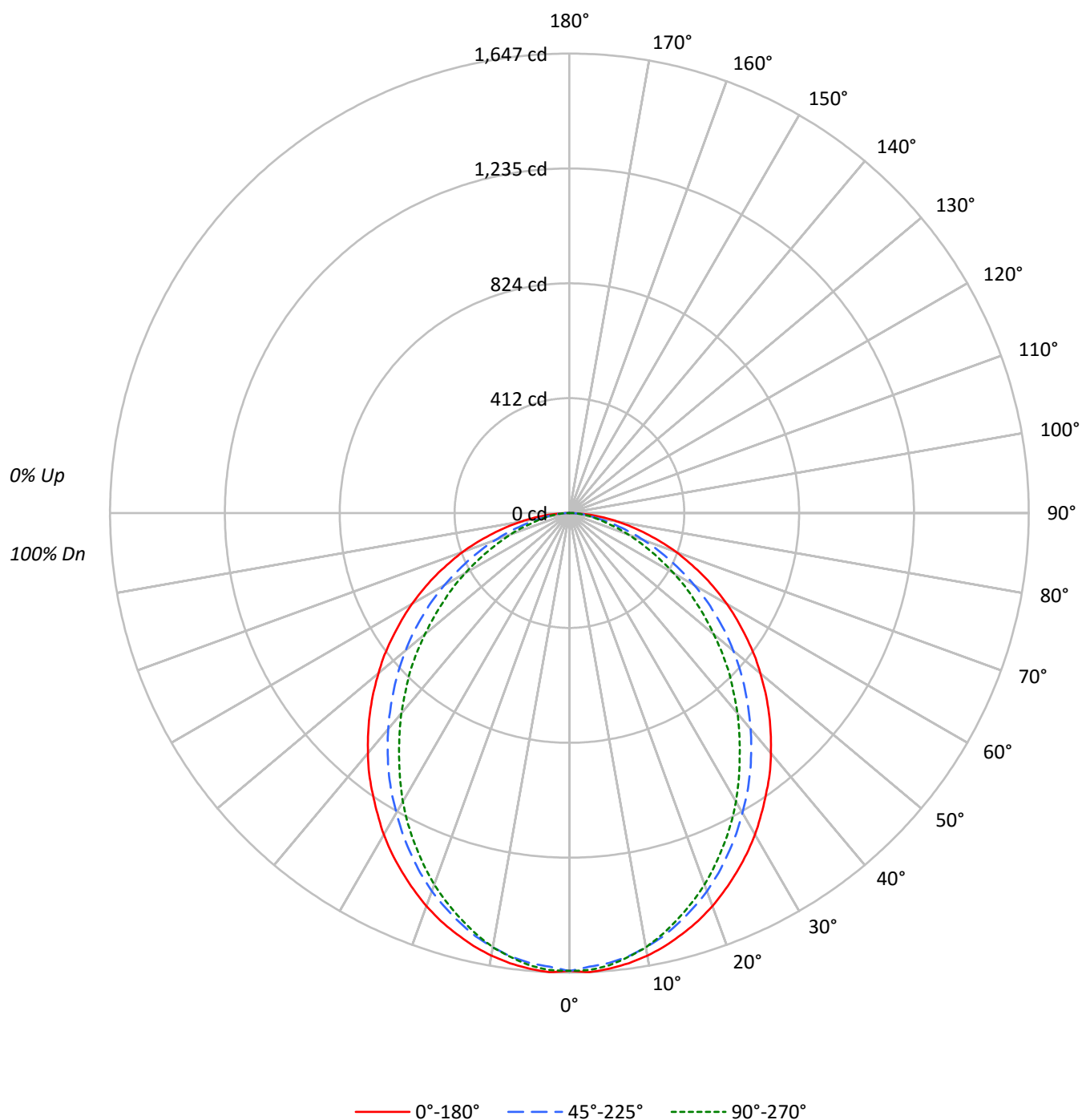
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14587	14587	14587
5°	14632	14448	14524
10°	14539	14266	14266
15°	14377	13987	13853
20°	14182	13644	13404
25°	13921	13208	12852
30°	13661	12729	12256
35°	13340	12262	11552
40°	13041	11735	10877
45°	12713	11174	10170
50°	12360	10601	9345
55°	11975	9948	8520
60°	11605	9193	7666
65°	11105	8304	6699
70°	10575	7334	5824
75°	9774	6113	4743
80°	8927	4776	4341
85°	7904	4569	4324

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	4.0
10°-20°	431.0	11.1
20°-30°	625.0	16.2
30°-40°	712.4	18.4
40°-50°	693.1	17.9
50°-60°	582.2	15.0
60°-70°	405.6	10.5
70°-80°	209.5	5.4
80°-90°	56.6	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°	1210.3	31.3
0°-40°	1922.7	49.7
0°-60°	3198.0	82.6
0°-90°	3869.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1640	1635	1619	1631	1628	156
15°	1562	1550	1520	1518	1505	441
25°	1419	1393	1347	1327	1310	654
35°	1229	1192	1130	1088	1065	770
45°	1011	963	889	832	809	780
55°	773	723	642	576	550	692
65°	528	477	395	338	318	523
75°	285	241	178	149	138	303
85°	78	50	45	42	42	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.0	1641.0	1641.0	1641.0	1641.0
2.5°	1647.1	1642.2	1627.7	1641.0	1639.8
5°	1639.8	1635.0	1619.2	1631.3	1627.7
7.5°	1627.7	1621.7	1603.5	1612.0	1605.9
10°	1610.8	1604.7	1580.5	1586.5	1580.5
12.5°	1589.0	1580.5	1553.8	1555.0	1545.4
15°	1562.3	1550.2	1519.9	1517.5	1505.4
17.5°	1533.2	1517.5	1482.4	1476.3	1463.0
20°	1499.3	1480.0	1442.4	1429.1	1417.0
22.5°	1460.6	1437.6	1396.4	1380.6	1364.9
25°	1419.4	1392.8	1346.7	1327.4	1310.4
27.5°	1377.0	1345.5	1295.9	1271.7	1254.7
30°	1331.0	1294.7	1240.2	1212.3	1194.1
32.5°	1280.1	1243.8	1186.9	1153.0	1130.0
35°	1229.3	1191.7	1130.0	1087.6	1064.6
37.5°	1179.6	1137.2	1070.6	1027.0	1000.4
40°	1123.9	1079.1	1011.3	961.6	937.4
42.5°	1068.2	1022.2	949.5	897.4	870.8
45°	1011.3	962.8	888.9	832.0	809.0
47.5°	953.1	904.7	828.4	769.0	742.4
50°	893.8	845.3	766.6	701.2	675.8
52.5°	835.7	784.8	706.1	639.5	612.8
55°	772.7	723.0	641.9	576.5	549.8
57.5°	712.1	660.0	581.3	514.7	492.9
60°	652.8	600.7	517.1	453.0	431.2
62.5°	589.8	537.7	455.4	393.6	374.2
65°	528.0	477.2	394.8	337.9	318.5
67.5°	465.1	419.0	339.1	284.6	268.9
70°	406.9	354.9	282.2	235.0	224.1
72.5°	345.2	299.1	228.9	190.1	181.7
75°	284.6	241.0	178.0	149.0	138.1
77.5°	228.9	186.5	134.4	110.2	110.2
80°	174.4	136.9	93.3	87.2	84.8
82.5°	123.5	88.4	69.0	64.2	63.0
85°	77.5	49.7	44.8	42.4	42.4
87.5°	37.5	23.0	23.0	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)