

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: P243580

Luminaire Tested: **S124RDR-H1195D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243580
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-H1195D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3664.3 lumens
Efficiency: N/A
Efficacy: 97.2 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

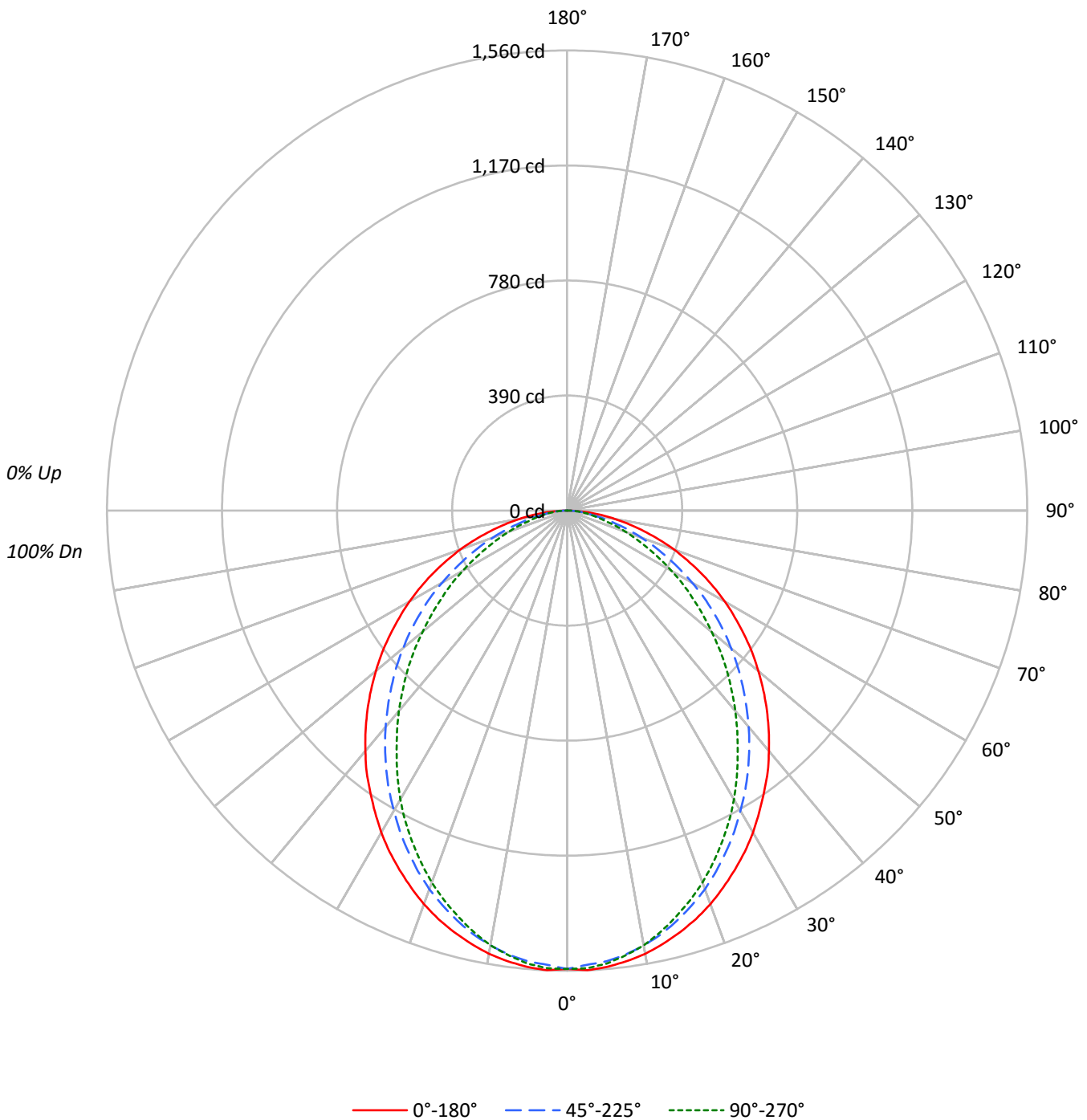
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13812	13812	13812
5°	13855	13681	13753
10°	13767	13508	13508
15°	13614	13245	13118
20°	13430	12921	12693
25°	13183	12508	12171
30°	12936	12053	11607
35°	12631	11611	10938
40°	12349	11112	10299
45°	12038	10582	9631
50°	11703	10038	8849
55°	11339	9419	8069
60°	10988	8706	7259
65°	10516	7864	6344
70°	10014	6944	5515
75°	9256	5790	4489
80°	8451	4520	4110
85°	7486	4324	4090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	4.0
10°-20°	408.1	11.1
20°-30°	591.8	16.2
30°-40°	674.6	18.4
40°-50°	656.3	17.9
50°-60°	551.3	15.0
60°-70°	384.1	10.5
70°-80°	198.3	5.4
80°-90°	53.6	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°	1146.1	31.3
0°-40°	1820.6	49.7
0°-60°	3028.3	82.6
0°-90°	3664.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1553	1548	1533	1545	1541	147
15°	1479	1468	1439	1437	1426	417
25°	1344	1319	1275	1257	1241	619
35°	1164	1128	1070	1030	1008	729
45°	958	912	842	788	766	739
55°	732	685	608	546	521	655
65°	500	452	374	320	302	495
75°	270	228	169	141	131	287
85°	73	47	42	40	40	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1559.7	1555.1	1541.3	1553.9	1552.8
5°	1552.8	1548.2	1533.3	1544.8	1541.3
7.5°	1541.3	1535.6	1518.4	1526.4	1520.7
10°	1525.3	1519.5	1496.6	1502.3	1496.6
12.5°	1504.6	1496.6	1471.4	1472.5	1463.3
15°	1479.4	1467.9	1439.3	1437.0	1425.5
17.5°	1451.9	1437.0	1403.7	1398.0	1385.4
20°	1419.8	1401.4	1365.9	1353.2	1341.8
22.5°	1383.1	1361.3	1322.3	1307.4	1292.5
25°	1344.1	1318.8	1275.3	1256.9	1240.9
27.5°	1303.9	1274.1	1227.1	1204.2	1188.1
30°	1260.3	1225.9	1174.3	1148.0	1130.8
32.5°	1212.2	1177.8	1123.9	1091.8	1070.0
35°	1164.0	1128.5	1070.0	1029.8	1008.0
37.5°	1117.0	1076.9	1013.8	972.5	947.3
40°	1064.2	1021.8	957.6	910.6	887.6
42.5°	1011.5	967.9	899.1	849.8	824.6
45°	957.6	911.7	841.8	787.9	766.1
47.5°	902.5	856.7	784.4	728.2	703.0
50°	846.3	800.5	725.9	664.0	639.9
52.5°	791.3	743.1	668.6	605.5	580.3
55°	731.7	684.6	607.8	545.9	520.7
57.5°	674.3	625.0	550.5	487.4	466.8
60°	618.1	568.8	489.7	428.9	408.3
62.5°	558.5	509.2	431.2	372.7	354.4
65°	500.0	451.8	373.9	320.0	301.6
67.5°	440.4	396.8	321.1	269.5	254.6
70°	385.3	336.0	267.2	222.5	212.2
72.5°	326.8	283.3	216.7	180.0	172.0
75°	269.5	228.2	168.6	141.1	130.7
77.5°	216.7	176.6	127.3	104.4	104.4
80°	165.1	129.6	88.3	82.6	80.3
82.5°	117.0	83.7	65.4	60.8	59.6
85°	73.4	47.0	42.4	40.1	40.1
87.5°	35.6	21.8	21.8	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)