

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: P243482

Luminaire Tested: **S124DR-H1195D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243482
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-H1195D935-X4F0-XX-UDD-F-W
Description: DEFINE 4 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: 4103.9 lumens
Efficiency: N/A
Efficacy: 108.9 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

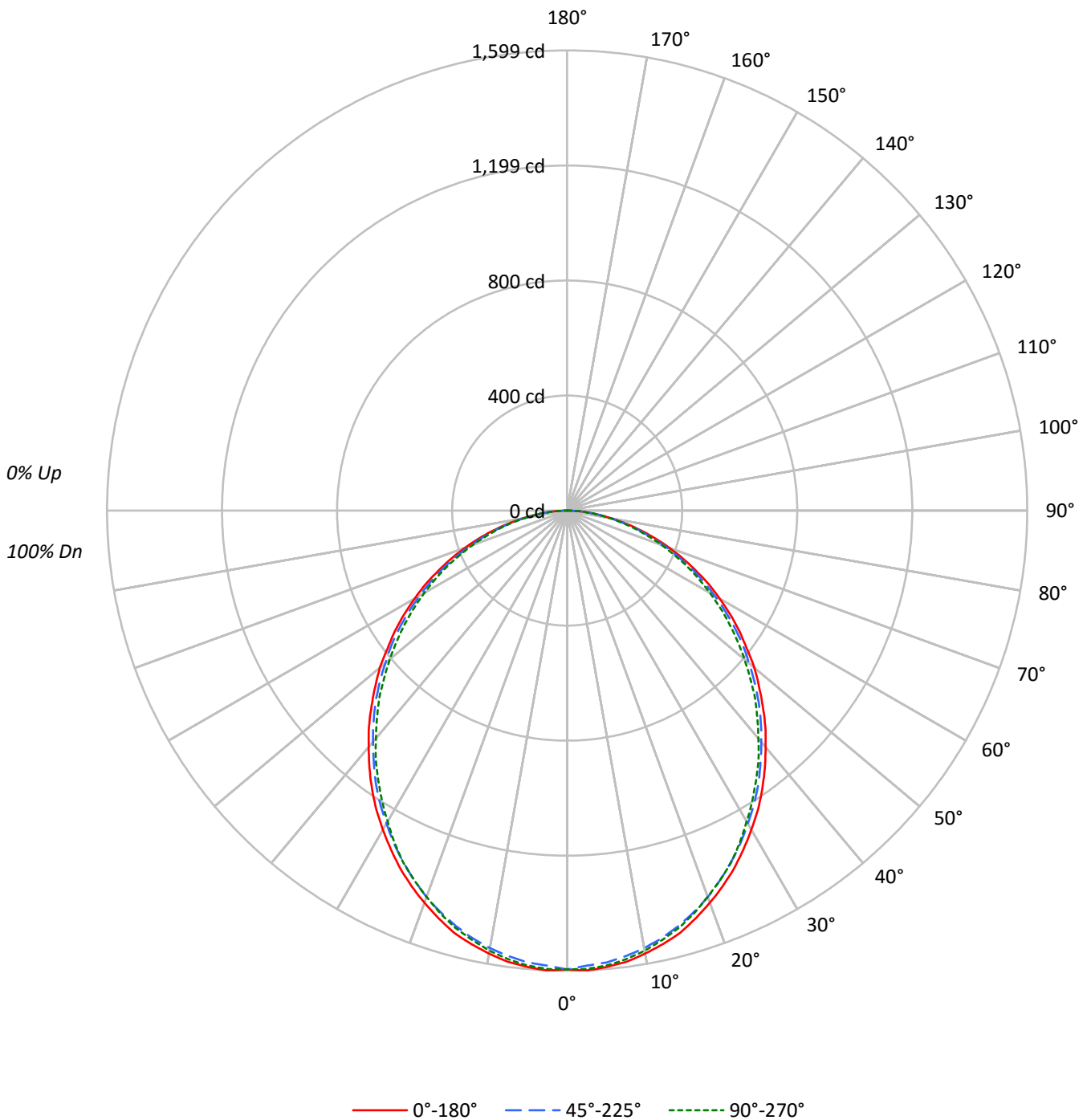
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14171	14171	14171
5°	14202	14062	14155
10°	14108	13933	14015
15°	13978	13751	13811
20°	13718	13521	13509
25°	13460	13218	13231
30°	13141	12888	12807
35°	12823	12569	12415
40°	12447	12177	11996
45°	12083	11838	11610
50°	11749	11409	11121
55°	11318	11016	10675
60°	10884	10516	10192
65°	10367	10012	9686
70°	9811	9372	9068
75°	9043	8686	8421
80°	7970	7837	7637
85°	7007	7007	6884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.7
10°-20°	423.7	10.3
20°-30°	624.1	15.2
30°-40°	726.1	17.7
40°-50°	726.4	17.7
50°-60°	635.3	15.5
60°-70°	471.8	11.5
70°-80°	268.8	6.6
80°-90°	77.5	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°	1198.1	29.2
0°-40°	1924.2	46.9
0°-60°	3285.8	80.1
0°-90°	4103.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4103.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1592	1589	1576	1588	1586	151
15°	1519	1511	1494	1503	1501	427
25°	1372	1366	1348	1352	1349	631
35°	1182	1171	1158	1148	1144	739
45°	961	957	942	927	924	742
55°	730	725	711	695	689	653
65°	493	489	476	466	460	489
75°	263	258	253	248	245	279
85°	69	68	69	66	68	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.2	1594.2	1594.2	1594.2	1594.2
2.5°	1599.4	1595.5	1582.5	1595.5	1594.2
5°	1591.6	1589.0	1576.0	1587.7	1586.4
7.5°	1581.2	1576.0	1561.7	1573.4	1572.1
10°	1563.0	1559.1	1543.6	1555.3	1552.7
12.5°	1542.3	1538.4	1521.5	1530.6	1528.0
15°	1518.9	1511.1	1494.3	1503.4	1500.8
17.5°	1485.2	1480.0	1463.2	1470.9	1467.0
20°	1450.2	1443.7	1429.4	1430.7	1428.1
22.5°	1412.6	1406.1	1389.2	1394.4	1389.2
25°	1372.4	1365.9	1347.7	1351.6	1349.0
27.5°	1327.0	1320.5	1303.6	1304.9	1299.7
30°	1280.3	1272.5	1255.6	1254.3	1247.8
32.5°	1233.6	1225.8	1208.9	1203.7	1197.2
35°	1181.7	1171.3	1158.3	1148.0	1144.1
37.5°	1128.5	1123.3	1103.9	1097.4	1092.2
40°	1072.7	1067.5	1049.4	1040.3	1033.8
42.5°	1019.5	1013.1	996.2	983.2	978.0
45°	961.2	957.3	941.7	927.4	923.6
47.5°	904.1	902.8	883.3	869.1	862.6
50°	849.6	841.8	825.0	812.0	804.2
52.5°	786.1	784.8	770.5	753.6	747.1
55°	730.3	725.1	710.8	695.3	688.8
57.5°	671.9	669.3	651.2	638.2	631.7
60°	612.2	607.1	591.5	579.8	573.3
62.5°	555.2	548.7	534.4	522.7	516.3
65°	492.9	489.0	476.0	465.7	460.5
67.5°	434.5	429.3	416.4	407.3	402.1
70°	377.5	369.7	360.6	352.8	348.9
72.5°	320.4	313.9	306.1	300.9	295.7
75°	263.3	258.1	252.9	247.8	245.2
77.5°	208.8	203.6	201.1	199.8	197.2
80°	155.7	153.1	153.1	151.8	149.2
82.5°	110.3	107.7	107.7	107.7	106.4
85°	68.7	67.5	68.7	66.2	67.5
87.5°	32.4	32.4	33.7	32.4	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)