

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: P243477

Luminaire Tested: **S124DR-H1195D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243477
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-H1195D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 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: 3886.1 lumens
Efficiency: N/A
Efficacy: 103.1 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

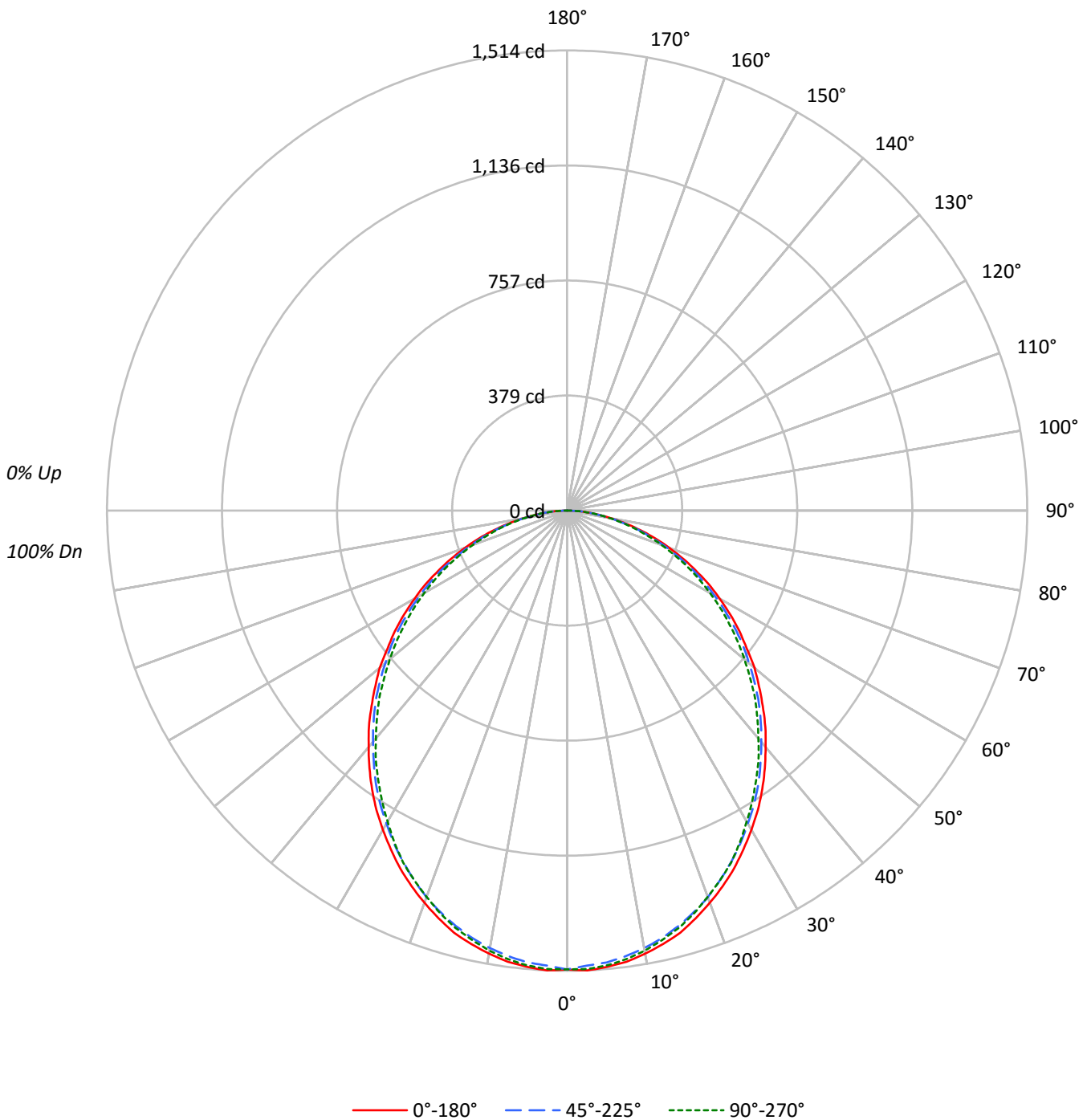
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13418	13418	13418
5°	13448	13316	13404
10°	13359	13192	13270
15°	13236	13022	13078
20°	12990	12804	12792
25°	12745	12517	12529
30°	12443	12204	12128
35°	12143	11902	11755
40°	11787	11531	11359
45°	11442	11209	10993
50°	11125	10803	10531
55°	10716	10431	10107
60°	10306	9957	9652
65°	9816	9482	9170
70°	9289	8875	8587
75°	8562	8225	7971
80°	7545	7417	7233
85°	6639	6639	6517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	3.7
10°-20°	401.3	10.3
20°-30°	590.9	15.2
30°-40°	687.5	17.7
40°-50°	687.8	17.7
50°-60°	601.5	15.5
60°-70°	446.8	11.5
70°-80°	254.5	6.6
80°-90°	73.3	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°	1134.5	29.2
0°-40°	1822.0	46.9
0°-60°	3111.4	80.1
0°-90°	3886.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1507	1505	1492	1503	1502	143
15°	1438	1431	1415	1424	1421	405
25°	1300	1293	1276	1280	1277	598
35°	1119	1109	1097	1087	1083	700
45°	910	906	892	878	874	703
55°	692	687	673	658	652	618
65°	467	463	451	441	436	463
75°	249	244	240	235	232	264
85°	65	64	65	63	64	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.5	1509.5	1509.5	1509.5	1509.5
2.5°	1514.5	1510.8	1498.5	1510.8	1509.5
5°	1507.1	1504.6	1492.4	1503.4	1502.2
7.5°	1497.3	1492.4	1478.8	1489.9	1488.7
10°	1480.1	1476.4	1461.6	1472.7	1470.2
12.5°	1460.4	1456.7	1440.8	1449.4	1446.9
15°	1438.3	1430.9	1415.0	1423.6	1421.1
17.5°	1406.4	1401.5	1385.5	1392.9	1389.2
20°	1373.2	1367.1	1353.6	1354.8	1352.3
22.5°	1337.6	1331.4	1315.5	1320.4	1315.5
25°	1299.5	1293.4	1276.2	1279.9	1277.4
27.5°	1256.5	1250.4	1234.4	1235.6	1230.7
30°	1212.3	1204.9	1189.0	1187.7	1181.6
32.5°	1168.1	1160.7	1144.8	1139.8	1133.7
35°	1119.0	1109.1	1096.8	1087.0	1083.3
37.5°	1068.6	1063.7	1045.3	1039.1	1034.2
40°	1015.8	1010.9	993.7	985.1	978.9
42.5°	965.4	959.3	943.3	931.0	926.1
45°	910.2	906.5	891.7	878.2	874.5
47.5°	856.1	854.9	836.5	822.9	816.8
50°	804.5	797.1	781.2	768.9	761.5
52.5°	744.3	743.1	729.6	713.6	707.5
55°	691.5	686.6	673.1	658.4	652.2
57.5°	636.2	633.8	616.6	604.3	598.2
60°	579.7	574.8	560.1	549.0	542.9
62.5°	525.7	519.6	506.0	495.0	488.9
65°	466.7	463.1	450.8	441.0	436.0
67.5°	411.5	406.6	394.3	385.7	380.8
70°	357.4	350.1	341.5	334.1	330.4
72.5°	303.4	297.2	289.9	285.0	280.0
75°	249.3	244.4	239.5	234.6	232.1
77.5°	197.8	192.8	190.4	189.2	186.7
80°	147.4	144.9	144.9	143.7	141.3
82.5°	104.4	101.9	101.9	101.9	100.7
85°	65.1	63.9	65.1	62.6	63.9
87.5°	30.7	30.7	31.9	30.7	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)