

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: P243458

Luminaire Tested: **S124DR-H1195D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243458
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-H1195D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3775.9 lumens
Efficiency: N/A
Efficacy: 100.2 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

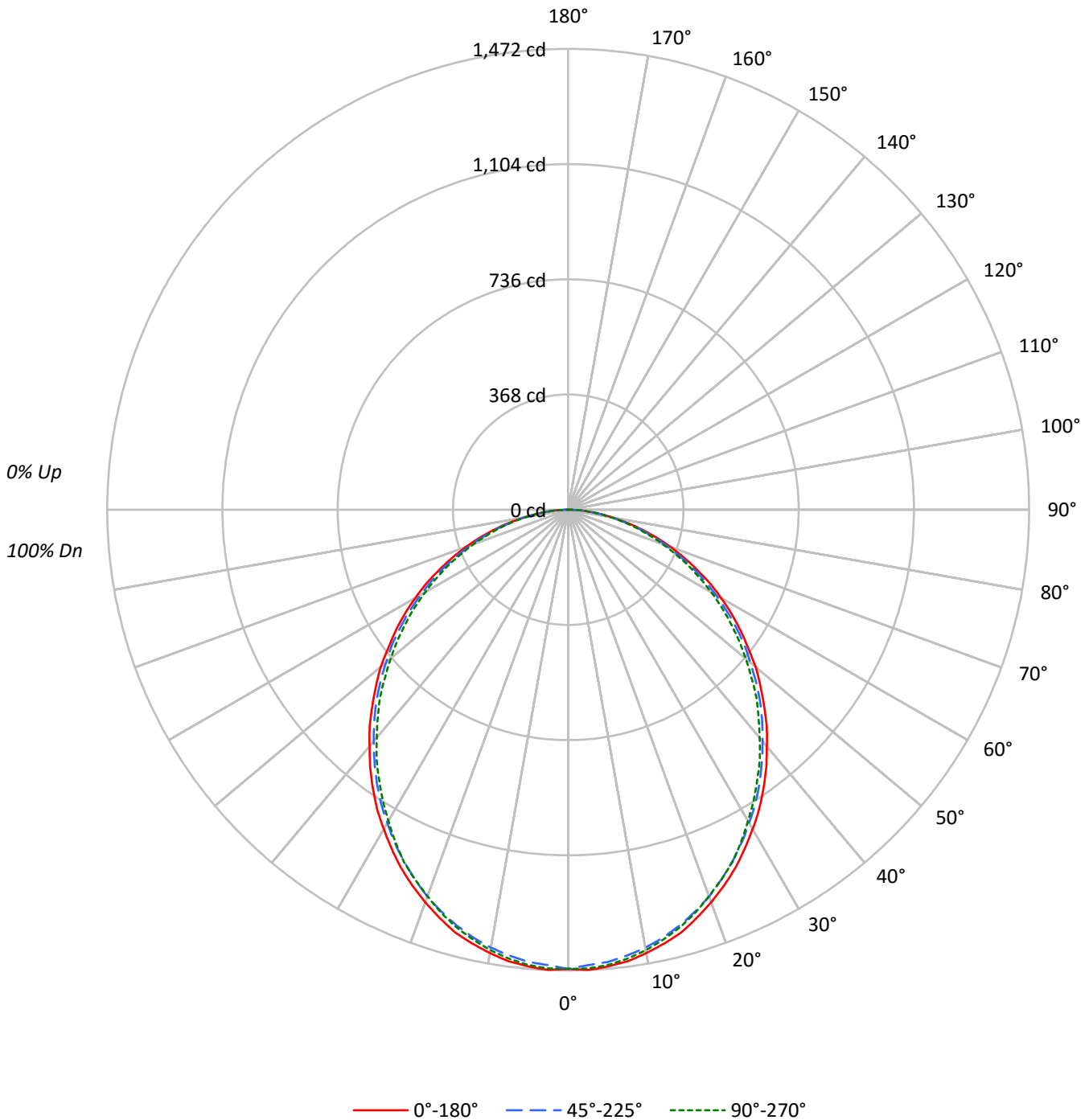
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13037	13037	13037
5°	13067	12938	13024
10°	12980	12819	12895
15°	12860	12652	12707
20°	12622	12441	12430
25°	12384	12162	12173
30°	12090	11858	11784
35°	11798	11564	11422
40°	11453	11203	11037
45°	11116	10891	10681
50°	10810	10496	10232
55°	10413	10135	9821
60°	10014	9675	9378
65°	9538	9212	8912
70°	9026	8623	8343
75°	8322	7992	7748
80°	7330	7207	7023
85°	6456	6456	6334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.7
10°-20°	389.9	10.3
20°-30°	574.2	15.2
30°-40°	668.0	17.7
40°-50°	668.3	17.7
50°-60°	584.5	15.5
60°-70°	434.1	11.5
70°-80°	247.3	6.6
80°-90°	71.3	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°	1102.4	29.2
0°-40°	1770.4	46.9
0°-60°	3023.2	80.1
0°-90°	3775.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1464	1462	1450	1461	1460	139
15°	1398	1390	1375	1383	1381	393
25°	1263	1257	1240	1244	1241	581
35°	1087	1078	1066	1056	1053	680
45°	884	881	866	853	850	683
55°	672	667	654	640	634	601
65°	454	450	438	428	424	450
75°	242	238	233	228	226	257
85°	63	62	63	61	62	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1466.7	1466.7	1466.7	1466.7	1466.7
2.5°	1471.5	1467.9	1456.0	1467.9	1466.7
5°	1464.4	1462.0	1450.0	1460.8	1459.6
7.5°	1454.8	1450.0	1436.9	1447.7	1446.5
10°	1438.1	1434.5	1420.2	1430.9	1428.6
12.5°	1419.0	1415.4	1399.9	1408.3	1405.9
15°	1397.5	1390.4	1374.9	1383.2	1380.8
17.5°	1366.5	1361.7	1346.2	1353.4	1349.8
20°	1334.3	1328.3	1315.2	1316.4	1314.0
22.5°	1299.7	1293.7	1278.2	1283.0	1278.2
25°	1262.7	1256.7	1240.0	1243.6	1241.2
27.5°	1220.9	1214.9	1199.4	1200.6	1195.8
30°	1177.9	1170.8	1155.3	1154.1	1148.1
32.5°	1135.0	1127.8	1112.3	1107.5	1101.6
35°	1087.2	1077.7	1065.7	1056.2	1052.6
37.5°	1038.3	1033.5	1015.6	1009.7	1004.9
40°	987.0	982.2	965.5	957.1	951.2
42.5°	938.0	932.1	916.6	904.6	899.9
45°	884.3	880.8	866.4	853.3	849.7
47.5°	831.8	830.6	812.7	799.6	793.6
50°	781.7	774.5	759.0	747.1	739.9
52.5°	723.2	722.0	708.9	693.4	687.4
55°	671.9	667.1	654.0	639.7	633.7
57.5°	618.2	615.8	599.1	587.2	581.2
60°	563.3	558.5	544.2	533.5	527.5
62.5°	510.8	504.8	491.7	481.0	475.0
65°	453.5	449.9	438.0	428.4	423.7
67.5°	399.8	395.0	383.1	374.7	370.0
70°	347.3	340.1	331.8	324.6	321.0
72.5°	294.8	288.8	281.7	276.9	272.1
75°	242.3	237.5	232.7	227.9	225.6
77.5°	192.1	187.4	185.0	183.8	181.4
80°	143.2	140.8	140.8	139.6	137.2
82.5°	101.4	99.1	99.1	99.1	97.9
85°	63.3	62.1	63.3	60.9	62.1
87.5°	29.8	29.8	31.0	29.8	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)