

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: P242720

Luminaire Tested: **S124RDR-S1195D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646.3 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

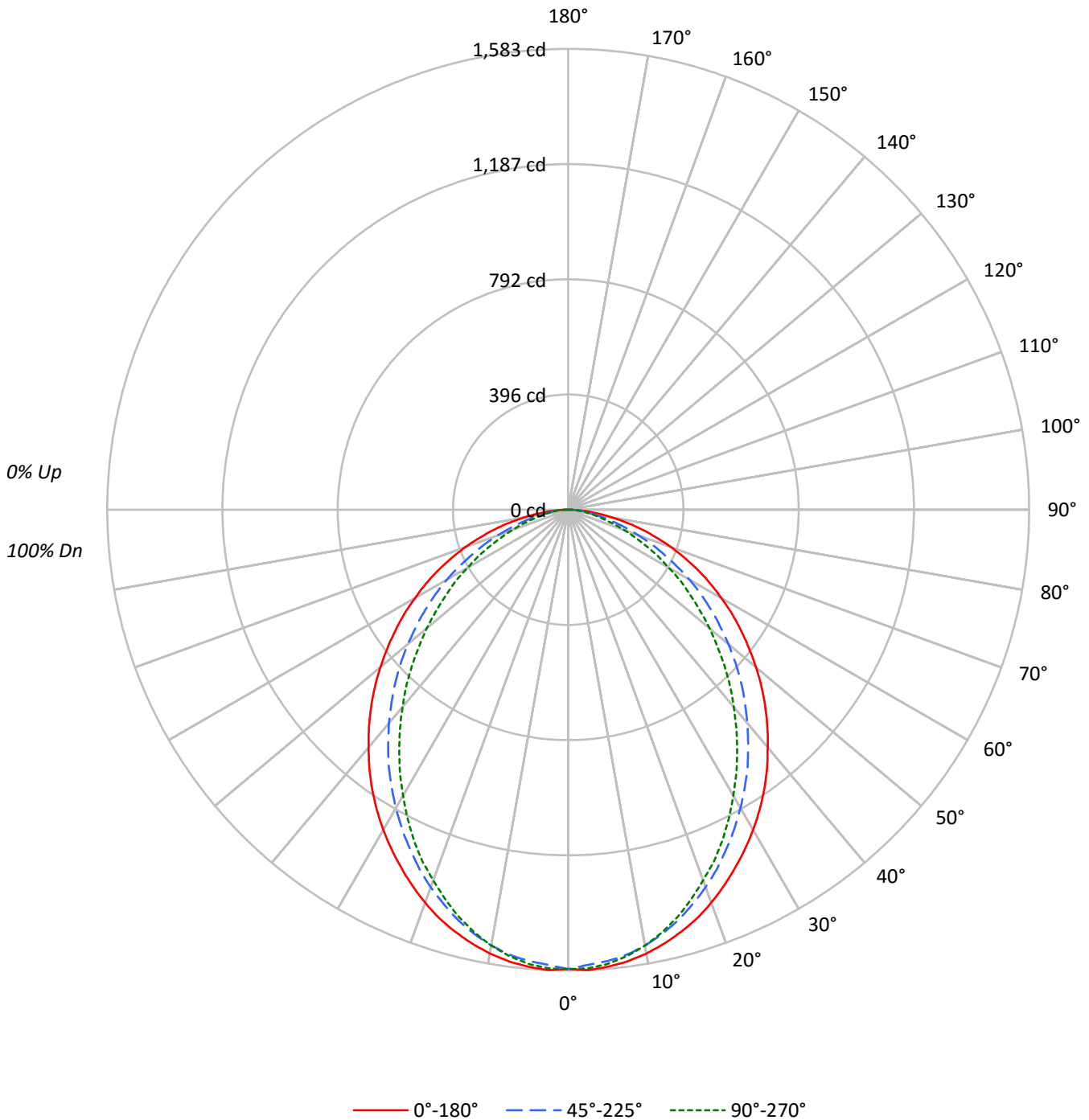
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14028	14028	14028
5°	14060	13887	13973
10°	13971	13720	13720
15°	13811	13433	13333
20°	13590	13053	12813
25°	13309	12610	12289
30°	13035	12142	11633
35°	12732	11657	10975
40°	12367	11105	10263
45°	12030	10557	9539
50°	11647	9926	8773
55°	11236	9269	7939
60°	10784	8549	7090
65°	10369	7650	6253
70°	9767	6658	5307
75°	9005	5519	4317
80°	7858	4208	3957
85°	6660	3825	3570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	4.1
10°-20°	413.8	11.3
20°-30°	597.4	16.4
30°-40°	677.0	18.6
40°-50°	653.7	17.9
50°-60°	543.4	14.9
60°-70°	375.1	10.3
70°-80°	189.5	5.2
80°-90°	48.1	1.3
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°	1159.5	31.8
0°-40°	1836.5	50.4
0°-60°	3033.6	83.2
0°-90°	3646.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3646.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1576	1571	1556	1568	1566	150
15°	1501	1490	1460	1457	1449	423
25°	1357	1335	1286	1265	1253	625
35°	1173	1135	1074	1033	1011	733
45°	957	912	840	781	759	738
55°	725	677	598	535	512	649
65°	493	441	364	312	297	487
75°	262	218	161	133	126	277
85°	65	41	38	35	35	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.1	1578.1	1578.1	1578.1	1578.1
2.5°	1582.9	1578.1	1564.8	1578.1	1576.9
5°	1575.7	1570.8	1556.3	1568.4	1566.0
7.5°	1564.8	1560.0	1541.8	1550.3	1546.7
10°	1547.9	1541.8	1520.1	1524.9	1520.1
12.5°	1526.1	1518.9	1492.3	1494.7	1487.5
15°	1500.8	1489.9	1459.7	1457.3	1448.8
17.5°	1471.8	1456.0	1421.0	1415.0	1402.9
20°	1436.7	1421.0	1379.9	1370.3	1354.5
22.5°	1398.0	1379.9	1335.2	1319.5	1307.4
25°	1357.0	1335.2	1285.7	1265.1	1253.0
27.5°	1314.7	1288.1	1236.1	1212.0	1195.0
30°	1270.0	1239.8	1183.0	1152.8	1133.4
32.5°	1222.8	1187.8	1128.6	1092.3	1074.2
35°	1173.3	1134.6	1074.2	1033.1	1011.4
37.5°	1121.3	1081.5	1015.0	970.3	948.5
40°	1065.8	1025.9	957.0	906.3	884.5
42.5°	1012.6	970.3	897.8	845.8	822.9
45°	957.0	912.3	839.8	780.6	758.8
47.5°	900.2	854.3	779.4	717.8	693.6
50°	842.2	795.1	717.8	657.3	634.4
52.5°	783.0	737.1	657.3	595.7	571.5
55°	725.0	676.7	598.1	535.3	512.3
57.5°	668.2	617.5	540.1	476.1	459.2
60°	606.6	558.3	480.9	418.1	398.8
62.5°	551.0	500.3	420.5	363.7	349.2
65°	493.0	441.0	363.7	311.8	297.3
67.5°	432.6	383.0	310.5	264.6	247.7
70°	375.8	325.0	256.2	216.3	204.2
72.5°	315.4	270.7	206.6	174.0	163.1
75°	262.2	217.5	160.7	132.9	125.7
77.5°	206.6	168.0	119.6	100.3	97.9
80°	153.5	118.4	82.2	78.5	77.3
82.5°	107.5	76.1	59.2	56.8	55.6
85°	65.3	41.1	37.5	35.0	35.0
87.5°	27.8	18.1	16.9	15.7	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)