

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: P242892

Luminaire Tested: **S125RDR-S1270D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P242892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125RDR-S1270D930-X4F0-XX-UDD-F-W  
Description: DEFINE 5 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: 3779.9 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')  
CIE Type: Direct

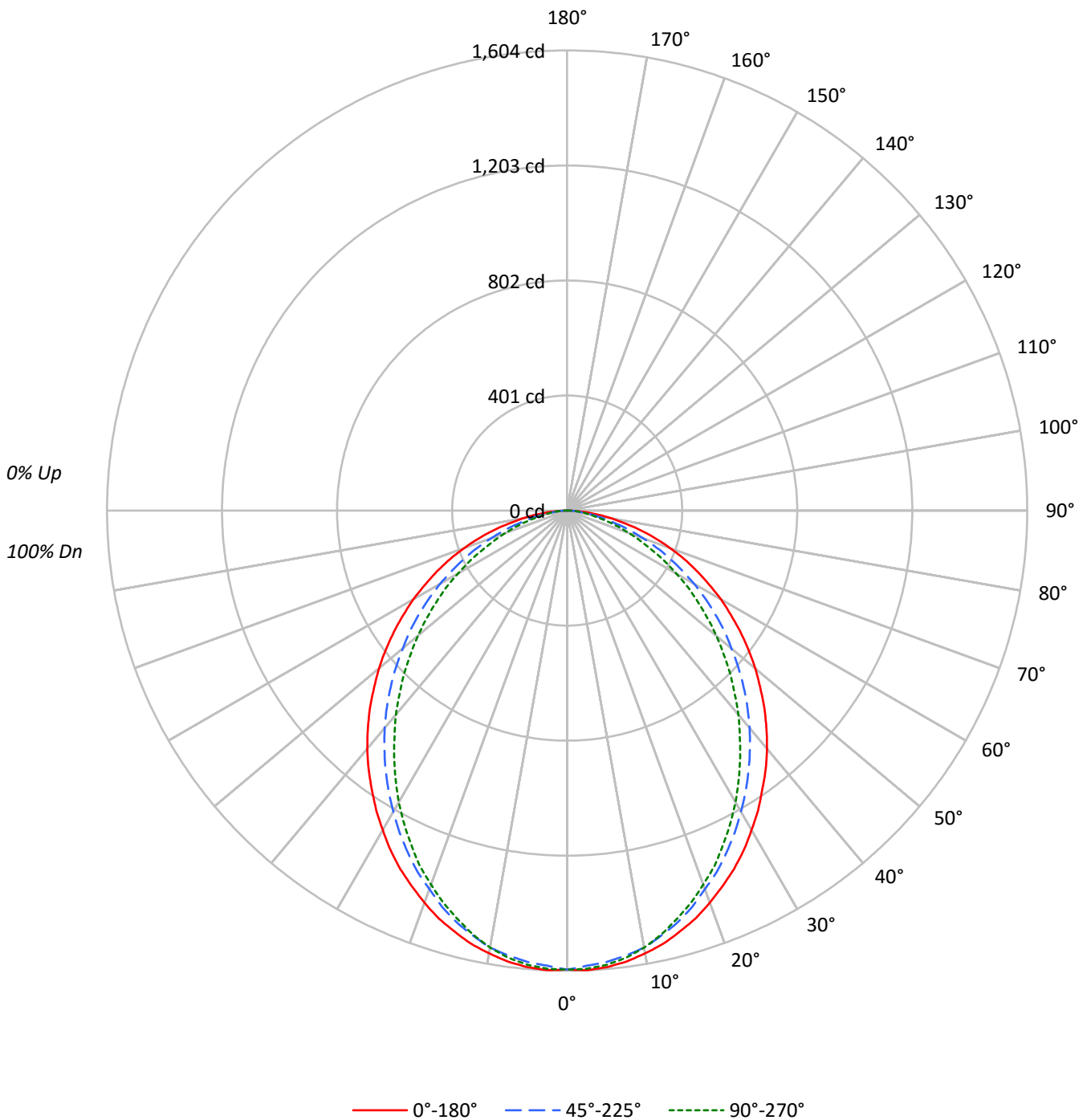
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	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	48	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	29
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°	11370	11370	11370
5°	11397	11268	11337
10°	11310	11163	11163
15°	11176	10936	10847
20°	11003	10620	10492
25°	10802	10310	10083
30°	10552	9947	9629
35°	10295	9572	9122
40°	10056	9181	8621
45°	9765	8745	8076
50°	9473	8271	7509
55°	9134	7816	6902
60°	8795	7265	6252
65°	8392	6624	5508
70°	7934	5825	4746
75°	7299	4910	3949
80°	6430	3860	3315
85°	5423	3156	2960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	4.0
10°-20°	420.8	11.1
20°-30°	610.1	16.1
30°-40°	695.1	18.4
40°-50°	677.5	17.9
50°-60°	570.2	15.1
60°-70°	399.6	10.6
70°-80°	204.8	5.4
80°-90°	51.1	1.4
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°	1181.5	31.3
0°-40°	1876.6	49.6
0°-60°	3124.4	82.7
0°-90°	3779.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1597	1593	1579	1591	1589	151
15°	1519	1512	1486	1485	1474	428
25°	1378	1359	1315	1299	1286	634
35°	1187	1158	1103	1068	1051	743
45°	972	936	870	822	804	749
55°	737	698	631	576	557	659
65°	499	458	394	346	328	494
75°	266	230	179	152	144	281
85°	66	45	39	38	36	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1599.8	1599.8	1599.8	1599.8	1599.8
2.5°	1603.5	1599.8	1587.8	1599.8	1598.6
5°	1597.4	1592.6	1579.3	1591.4	1589.0
7.5°	1585.3	1580.5	1564.8	1574.5	1572.0
10°	1567.2	1563.6	1546.7	1550.3	1546.7
12.5°	1546.7	1541.8	1517.7	1520.1	1514.0
15°	1518.9	1511.6	1486.3	1485.0	1474.2
17.5°	1489.9	1479.0	1448.8	1442.8	1434.3
20°	1454.8	1442.8	1404.1	1398.0	1387.2
22.5°	1416.2	1404.1	1363.0	1349.7	1341.3
25°	1377.5	1359.4	1314.7	1299.0	1285.7
27.5°	1334.0	1312.3	1265.1	1244.6	1231.3
30°	1285.7	1262.7	1212.0	1184.2	1173.3
32.5°	1238.5	1210.8	1158.8	1127.4	1112.9
35°	1186.6	1157.6	1103.2	1068.2	1051.3
37.5°	1137.0	1102.0	1046.4	1005.3	988.4
40°	1083.9	1047.6	989.6	943.7	929.2
42.5°	1028.3	990.8	930.4	886.9	864.0
45°	971.5	936.5	870.0	821.7	803.5
47.5°	912.3	876.0	809.6	760.0	739.5
50°	856.7	816.8	748.0	697.2	679.1
52.5°	796.3	755.2	691.2	635.6	617.5
55°	737.1	698.4	630.8	576.4	557.0
57.5°	676.7	635.6	570.3	517.2	500.3
60°	618.7	576.4	511.1	458.0	439.8
62.5°	557.0	517.2	450.7	402.4	384.3
65°	499.0	458.0	393.9	345.6	327.5
67.5°	441.0	400.0	338.3	292.4	277.9
70°	381.8	340.8	280.3	242.9	228.4
72.5°	323.8	284.0	228.4	194.5	186.1
75°	265.8	229.6	178.8	152.3	143.8
77.5°	206.6	177.6	135.3	114.8	107.5
80°	157.1	128.1	94.3	83.4	81.0
82.5°	108.8	83.4	62.8	59.2	58.0
85°	66.5	44.7	38.7	37.5	36.3
87.5°	27.8	19.3	18.1	18.1	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)