

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: P334413

Luminaire Tested: **S125RDS-S1090D835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334413  
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: S125RDS-S1090D835-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1090 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3989.2 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

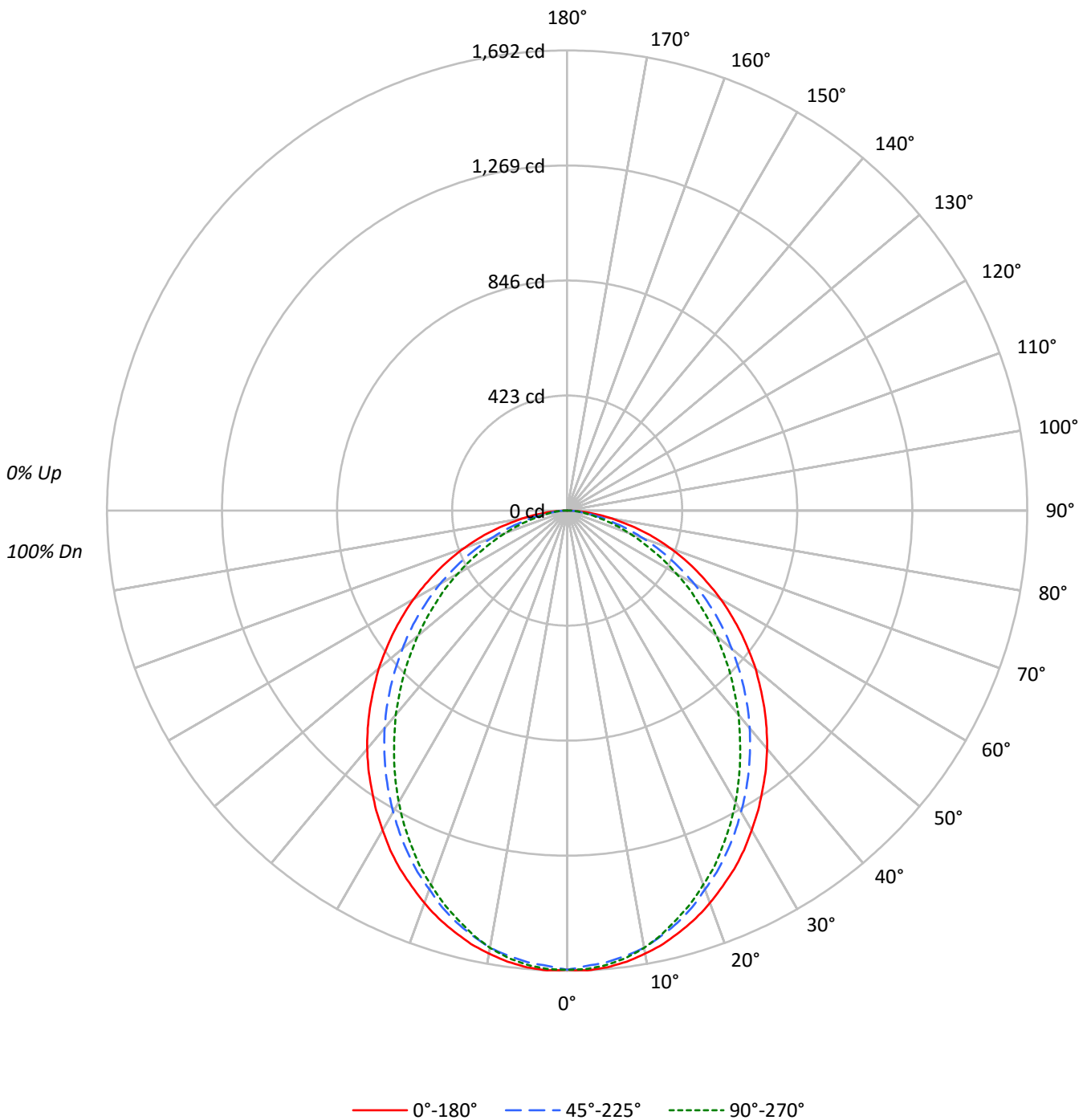
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10904	10904	10904
5°	10930	10805	10871
10°	10847	10705	10705
15°	10718	10488	10402
20°	10553	10184	10062
25°	10360	9887	9669
30°	10119	9539	9235
35°	9873	9180	8748
40°	9644	8805	8268
45°	9365	8386	7745
50°	9084	7931	7201
55°	8759	7496	6620
60°	8433	6967	5996
65°	8049	6353	5281
70°	7610	5587	4551
75°	7002	4709	3788
80°	6166	3701	3176
85°	5194	3023	2838



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.9	4.0
10°-20°	444.1	11.1
20°-30°	643.9	16.1
30°-40°	733.6	18.4
40°-50°	715.0	17.9
50°-60°	601.8	15.1
60°-70°	421.7	10.6
70°-80°	216.2	5.4
80°-90°	53.9	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°	1246.9	31.3
0°-40°	1980.5	49.6
0°-60°	3297.3	82.7
0°-90°	3989.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3989.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1686	1681	1667	1680	1677	160
15°	1603	1595	1569	1567	1556	452
25°	1454	1435	1388	1371	1357	669
35°	1252	1222	1164	1127	1110	784
45°	1025	988	918	867	848	791
55°	778	737	666	608	588	696
65°	527	483	416	365	346	522
75°	281	242	189	161	152	297
85°	70	47	41	40	38	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1688.4	1688.4	1688.4	1688.4	1688.4
2.5°	1692.3	1688.4	1675.7	1688.4	1687.2
5°	1685.9	1680.8	1666.7	1679.5	1676.9
7.5°	1673.1	1668.0	1651.4	1661.6	1659.1
10°	1654.0	1650.2	1632.3	1636.1	1632.3
12.5°	1632.3	1627.2	1601.7	1604.3	1597.9
15°	1603.0	1595.3	1568.6	1567.3	1555.8
17.5°	1572.4	1560.9	1529.0	1522.6	1513.7
20°	1535.4	1522.6	1481.8	1475.5	1464.0
22.5°	1494.6	1481.8	1438.5	1424.4	1415.5
25°	1453.8	1434.7	1387.5	1370.9	1356.9
27.5°	1407.9	1384.9	1335.2	1313.5	1299.5
30°	1356.9	1332.6	1279.1	1249.7	1238.3
32.5°	1307.1	1277.8	1223.0	1189.8	1174.5
35°	1252.3	1221.7	1164.3	1127.3	1109.5
37.5°	1200.0	1163.0	1104.4	1061.0	1043.2
40°	1143.9	1105.6	1044.4	996.0	980.7
42.5°	1085.2	1045.7	981.9	936.0	911.8
45°	1025.3	988.3	918.2	867.2	848.0
47.5°	962.8	924.6	854.4	802.1	780.5
50°	904.1	862.1	789.4	735.8	716.7
52.5°	840.4	797.0	729.4	670.8	651.7
55°	777.9	737.1	665.7	608.3	587.9
57.5°	714.1	670.8	601.9	545.8	528.0
60°	652.9	608.3	539.4	483.3	464.2
62.5°	587.9	545.8	475.7	424.7	405.5
65°	526.7	483.3	415.7	364.7	345.6
67.5°	465.5	422.1	357.1	308.6	293.3
70°	403.0	359.6	295.9	256.3	241.0
72.5°	341.8	299.7	241.0	205.3	196.4
75°	280.6	242.3	188.7	160.7	151.8
77.5°	218.1	187.5	142.8	121.1	113.5
80°	165.8	135.2	99.5	88.0	85.4
82.5°	114.8	88.0	66.3	62.5	61.2
85°	70.1	47.2	40.8	39.5	38.3
87.5°	29.3	20.4	19.1	19.1	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)