

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: P334419

Luminaire Tested: **S125RDW-S1270D840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334419  
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: S125RDW-S1270D840-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1270 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4681.9 lumens  
Efficiency: N/A  
Efficacy: 113.9 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

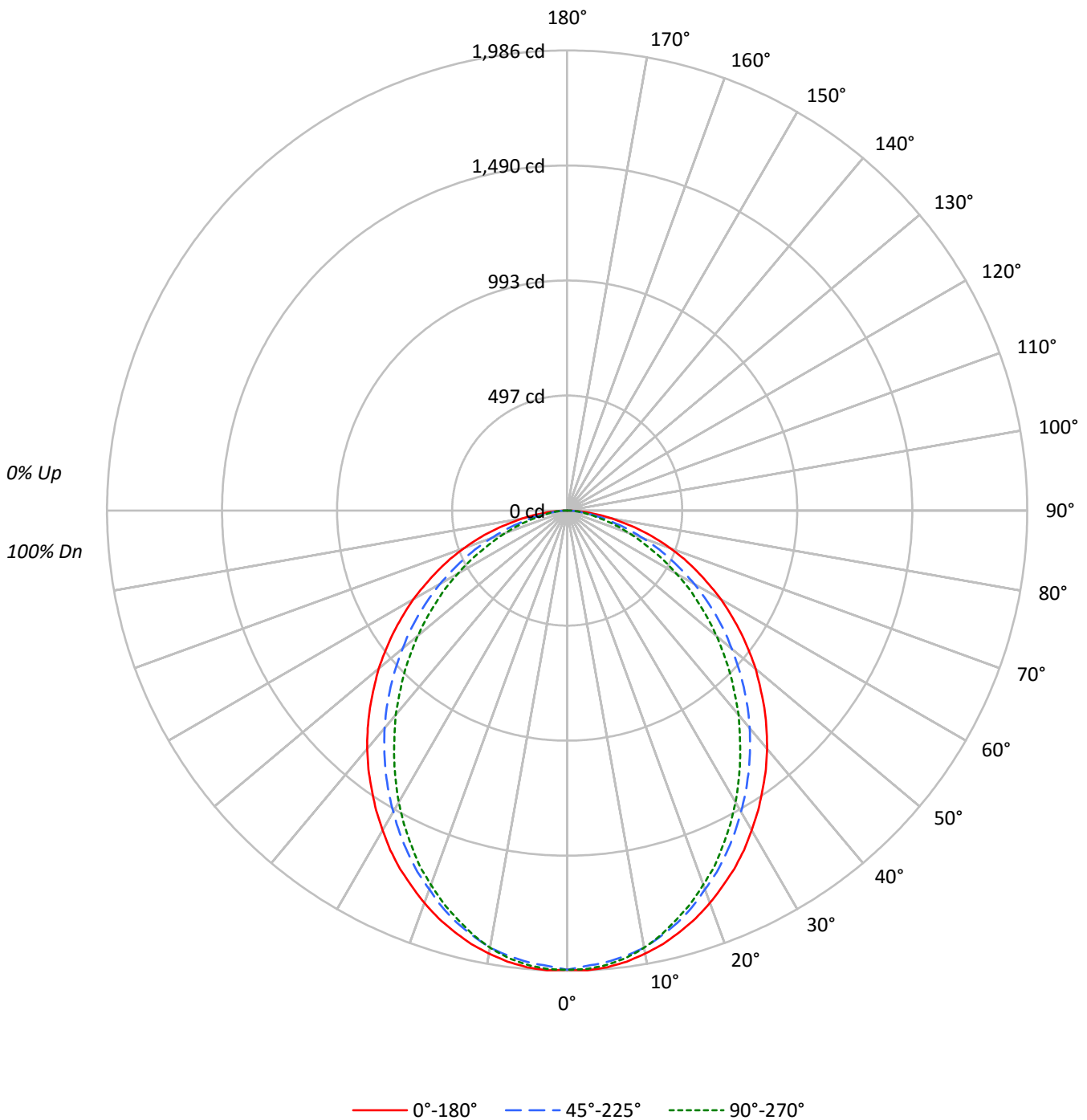
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29					29			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12798	12798	12798
5°	12827	12682	12760
10°	12730	12564	12564
15°	12579	12309	12209
20°	12385	11953	11809
25°	12158	11604	11348
30°	11876	11195	10838
35°	11588	10774	10266
40°	11318	10334	9704
45°	10990	9842	9091
50°	10662	9309	8451
55°	10280	8797	7769
60°	9898	8178	7037
65°	9446	7456	6198
70°	8932	6556	5342
75°	8217	5527	4444
80°	7238	4340	3730
85°	6099	3549	3327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	4.0
10°-20°	521.2	11.1
20°-30°	755.7	16.1
30°-40°	861.0	18.4
40°-50°	839.2	17.9
50°-60°	706.3	15.1
60°-70°	494.9	10.6
70°-80°	253.7	5.4
80°-90°	63.3	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°	1463.5	31.3
0°-40°	2324.5	49.6
0°-60°	3869.9	82.7
0°-90°	4681.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4681.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1979	1973	1956	1971	1968	188
15°	1881	1872	1841	1839	1826	530
25°	1706	1684	1628	1609	1592	785
35°	1470	1434	1366	1323	1302	920
45°	1203	1160	1078	1018	995	928
55°	913	865	781	714	690	816
65°	618	567	488	428	406	612
75°	329	284	222	189	178	348
85°	82	55	48	46	45	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1981.6	1981.6	1981.6	1981.6	1981.6
2.5°	1986.1	1981.6	1966.7	1981.6	1980.1
5°	1978.6	1972.6	1956.2	1971.2	1968.2
7.5°	1963.7	1957.7	1938.2	1950.2	1947.2
10°	1941.2	1936.7	1915.8	1920.3	1915.8
12.5°	1915.8	1909.8	1879.9	1882.8	1875.4
15°	1881.3	1872.4	1840.9	1839.4	1826.0
17.5°	1845.4	1832.0	1794.5	1787.1	1776.6
20°	1802.0	1787.1	1739.2	1731.7	1718.2
22.5°	1754.1	1739.2	1688.3	1671.8	1661.3
25°	1706.2	1683.8	1628.4	1609.0	1592.5
27.5°	1652.4	1625.4	1567.0	1541.6	1525.1
30°	1592.5	1564.0	1501.2	1466.8	1453.3
32.5°	1534.1	1499.7	1435.3	1396.4	1378.5
35°	1469.8	1433.8	1366.5	1323.1	1302.1
37.5°	1408.4	1365.0	1296.1	1245.3	1224.3
40°	1342.5	1297.6	1225.8	1168.9	1151.0
42.5°	1273.7	1227.3	1152.5	1098.6	1070.1
45°	1203.3	1159.9	1077.6	1017.8	995.3
47.5°	1130.0	1085.1	1002.8	941.4	916.0
50°	1061.2	1011.8	926.5	863.6	841.1
52.5°	986.3	935.4	856.1	787.3	764.8
55°	913.0	865.1	781.3	713.9	690.0
57.5°	838.2	787.3	706.4	640.6	619.6
60°	766.3	713.9	633.1	567.2	544.8
62.5°	690.0	640.6	558.3	498.4	475.9
65°	618.1	567.2	487.9	428.1	405.6
67.5°	546.3	495.4	419.1	362.2	344.2
70°	473.0	422.1	347.2	300.8	282.9
72.5°	401.1	351.7	282.9	241.0	230.5
75°	329.3	284.4	221.5	188.6	178.1
77.5°	255.9	220.0	167.6	142.2	133.2
80°	194.6	158.6	116.7	103.3	100.3
82.5°	134.7	103.3	77.8	73.3	71.8
85°	82.3	55.4	47.9	46.4	44.9
87.5°	34.4	23.9	22.5	22.5	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)