

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: P334364

Luminaire Tested: **S125DW-S1270D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DW-S1270D935-4F0-1E-UDD-F
Description: DEFINE 5 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1270 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4198.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

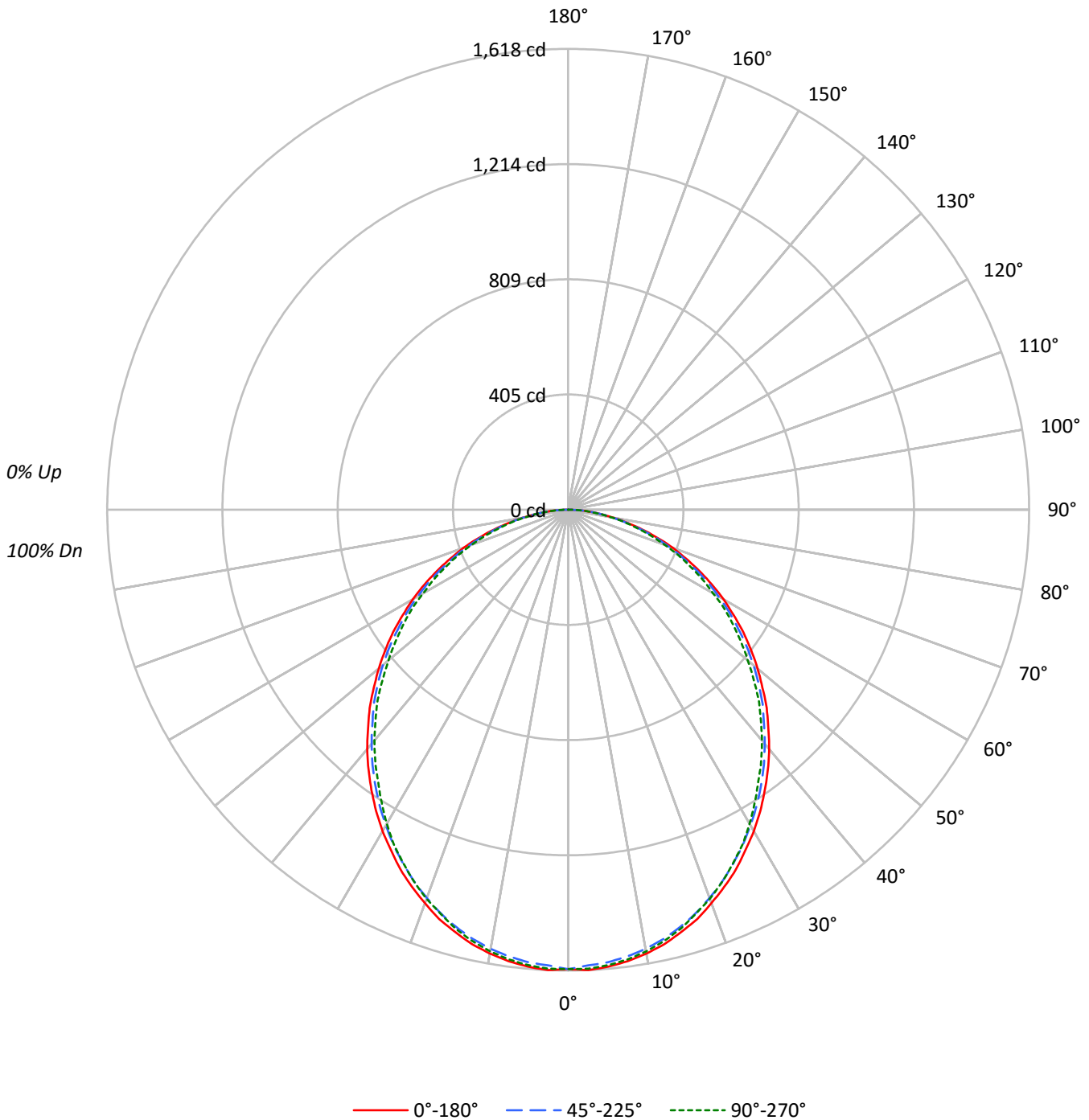
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10417	10417	10417
5°	10440	10341	10407
10°	10377	10268	10327
15°	10264	10144	10187
20°	10103	9972	9989
25°	9930	9766	9757
30°	9716	9545	9497
35°	9487	9306	9176
40°	9252	9048	8919
45°	8997	8811	8637
50°	8718	8526	8270
55°	8448	8204	7974
60°	8126	7879	7599
65°	7742	7488	7234
70°	7374	7036	6796
75°	6720	6495	6273
80°	5980	5884	5742
85°	5202	5298	5009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.6
10°-20°	429.9	10.2
20°-30°	634.7	15.1
30°-40°	740.5	17.6
40°-50°	743.7	17.7
50°-60°	652.9	15.6
60°-70°	486.3	11.6
70°-80°	277.7	6.6
80°-90°	80.2	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°	1216.8	29.0
0°-40°	1957.3	46.6
0°-60°	3353.9	79.9
0°-90°	4198.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4198.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1610	1608	1595	1607	1605	153
15°	1535	1531	1517	1524	1524	433
25°	1394	1387	1370	1373	1369	641
35°	1203	1198	1180	1174	1164	753
45°	985	980	965	949	946	759
55°	750	746	729	717	708	670
65°	507	504	490	478	473	502
75°	269	267	260	256	251	287
85°	70	72	72	70	68	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.0	1613.0	1613.0	1613.0	1613.0
2.5°	1618.1	1614.2	1601.5	1614.2	1613.0
5°	1610.4	1607.8	1595.1	1606.6	1605.3
7.5°	1598.9	1596.4	1582.3	1593.8	1592.5
10°	1582.3	1579.8	1565.7	1575.9	1574.7
12.5°	1561.9	1556.8	1544.0	1551.7	1551.7
15°	1535.1	1531.3	1517.2	1523.6	1523.6
17.5°	1507.0	1500.7	1486.6	1494.3	1487.9
20°	1470.0	1467.5	1450.9	1459.8	1453.4
22.5°	1433.0	1427.9	1412.6	1417.7	1413.9
25°	1393.5	1387.1	1370.5	1373.0	1369.2
27.5°	1347.5	1343.7	1327.1	1328.4	1324.6
30°	1302.9	1299.0	1279.9	1277.3	1273.5
32.5°	1254.4	1248.0	1231.4	1226.3	1218.6
35°	1203.3	1198.2	1180.4	1174.0	1163.8
37.5°	1151.0	1144.6	1128.0	1119.1	1112.7
40°	1097.4	1091.0	1073.2	1061.7	1057.9
42.5°	1040.0	1034.9	1017.0	1006.8	1000.4
45°	985.1	980.0	964.7	949.4	945.6
47.5°	925.1	926.4	907.3	892.0	883.0
50°	867.7	863.9	848.6	832.0	823.1
52.5°	809.0	806.5	789.9	775.8	765.6
55°	750.3	746.5	728.6	717.2	708.2
57.5°	687.8	686.5	671.2	655.9	652.1
60°	629.1	624.0	610.0	597.2	588.3
62.5°	567.9	564.0	552.5	538.5	532.1
65°	506.6	504.0	490.0	478.5	473.4
67.5°	446.6	441.5	431.3	421.1	418.6
70°	390.5	384.1	372.6	365.0	359.9
72.5°	329.2	325.4	319.0	310.1	305.0
75°	269.3	266.7	260.3	256.5	251.4
77.5°	213.1	211.8	208.0	205.4	201.6
80°	160.8	160.8	158.2	157.0	154.4
82.5°	114.8	112.3	112.3	109.7	109.7
85°	70.2	71.5	71.5	70.2	67.6
87.5°	34.5	34.5	33.2	33.2	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)