

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: P334417

Luminaire Tested: **S125RDS-S850D840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334417
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-S850D840-4F0-1E-UDD-F
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 850 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3159.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

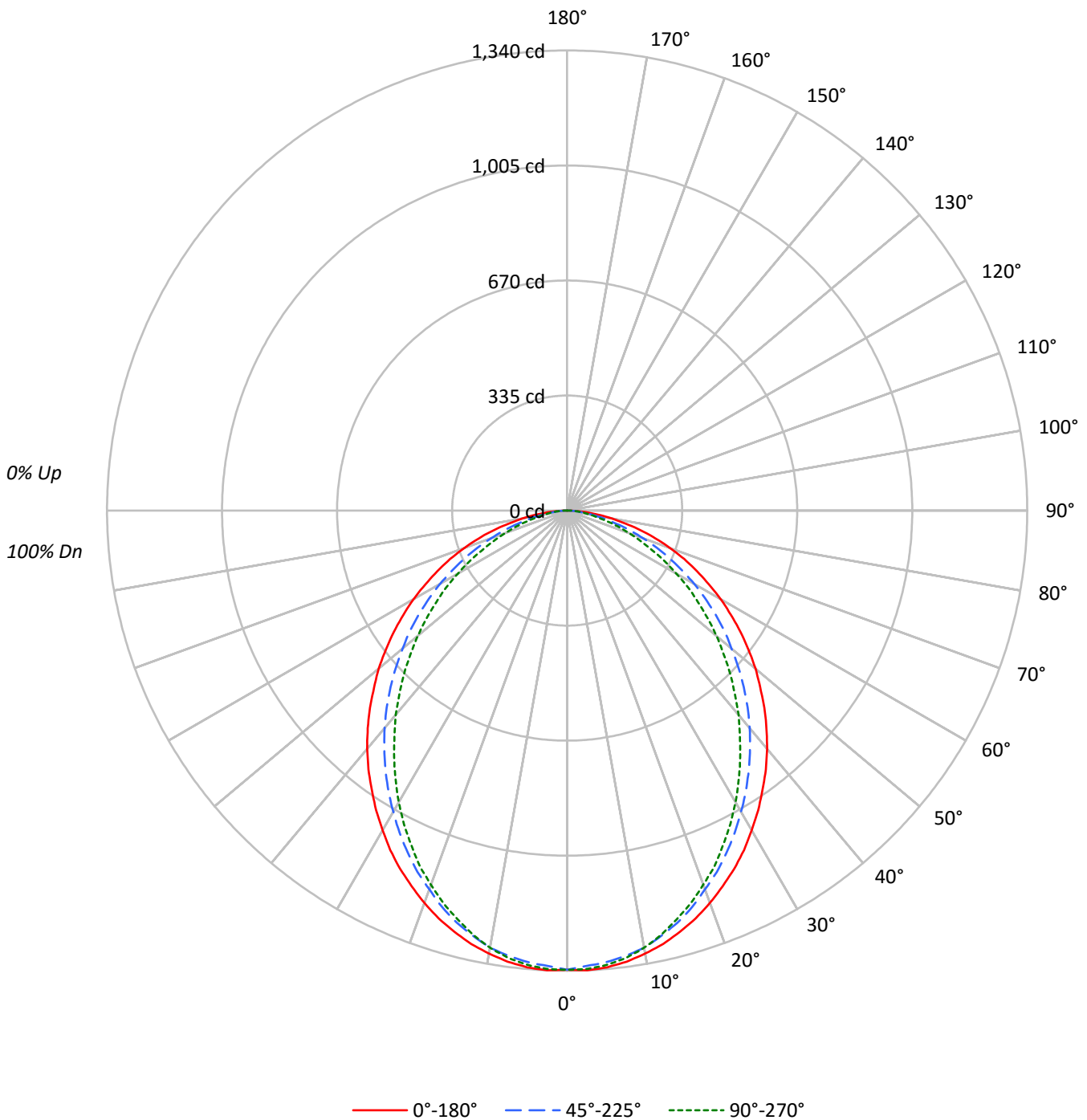
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	8635	8635	8635
5°	8655	8557	8609
10°	8590	8477	8477
15°	8487	8305	8237
20°	8357	8065	7968
25°	8203	7829	7657
30°	8013	7554	7313
35°	7819	7269	6927
40°	7637	6973	6547
45°	7415	6641	6134
50°	7194	6281	5702
55°	6936	5935	5241
60°	6679	5518	4748
65°	6374	5031	4183
70°	6026	4424	3605
75°	5545	3730	2999
80°	4883	2931	2518
85°	4113	2393	2245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	4.0
10°-20°	351.7	11.1
20°-30°	509.9	16.1
30°-40°	580.9	18.4
40°-50°	566.2	17.9
50°-60°	476.5	15.1
60°-70°	333.9	10.6
70°-80°	171.2	5.4
80°-90°	42.7	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°	987.4	31.3
0°-40°	1568.4	49.6
0°-60°	2611.2	82.7
0°-90°	3159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1335	1331	1320	1330	1328	127
15°	1269	1263	1242	1241	1232	358
25°	1151	1136	1099	1086	1074	530
35°	992	968	922	893	879	621
45°	812	783	727	687	672	626
55°	616	584	527	482	466	551
65°	417	383	329	289	274	413
75°	222	192	150	127	120	235
85°	56	37	32	31	30	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.1	1337.1	1337.1	1337.1	1337.1
2.5°	1340.1	1337.1	1327.0	1337.1	1336.1
5°	1335.0	1331.0	1319.9	1330.0	1328.0
7.5°	1324.9	1320.9	1307.8	1315.9	1313.8
10°	1309.8	1306.8	1292.6	1295.7	1292.6
12.5°	1292.6	1288.6	1268.4	1270.4	1265.4
15°	1269.4	1263.3	1242.1	1241.1	1232.0
17.5°	1245.2	1236.1	1210.8	1205.8	1198.7
20°	1215.9	1205.8	1173.5	1168.4	1159.3
22.5°	1183.6	1173.5	1139.1	1128.0	1120.9
25°	1151.2	1136.1	1098.7	1085.6	1074.5
27.5°	1114.9	1096.7	1057.3	1040.2	1029.1
30°	1074.5	1055.3	1012.9	989.7	980.6
32.5°	1035.1	1011.9	968.5	942.2	930.1
35°	991.7	967.5	922.0	892.7	878.6
37.5°	950.3	921.0	874.5	840.2	826.1
40°	905.8	875.6	827.1	788.7	776.6
42.5°	859.4	828.1	777.6	741.2	722.1
45°	811.9	782.6	727.1	686.7	671.6
47.5°	762.4	732.2	676.6	635.2	618.0
50°	716.0	682.7	625.1	582.7	567.5
52.5°	665.5	631.2	577.6	531.2	516.0
55°	616.0	583.7	527.1	481.7	465.5
57.5°	565.5	531.2	476.7	432.2	418.1
60°	517.1	481.7	427.2	382.7	367.6
62.5°	465.5	432.2	376.7	336.3	321.1
65°	417.1	382.7	329.2	288.8	273.7
67.5°	368.6	334.3	282.8	244.4	232.3
70°	319.1	284.8	234.3	203.0	190.9
72.5°	270.6	237.3	190.9	162.6	155.5
75°	222.2	191.9	149.5	127.2	120.2
77.5°	172.7	148.5	113.1	95.9	89.9
80°	131.3	107.0	78.8	69.7	67.7
82.5°	90.9	69.7	52.5	49.5	48.5
85°	55.5	37.4	32.3	31.3	30.3
87.5°	23.2	16.2	15.1	15.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)