

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: P242799

Luminaire Tested: **S125DR-S1270D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242799
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: S125DR-S1270D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4347.9 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

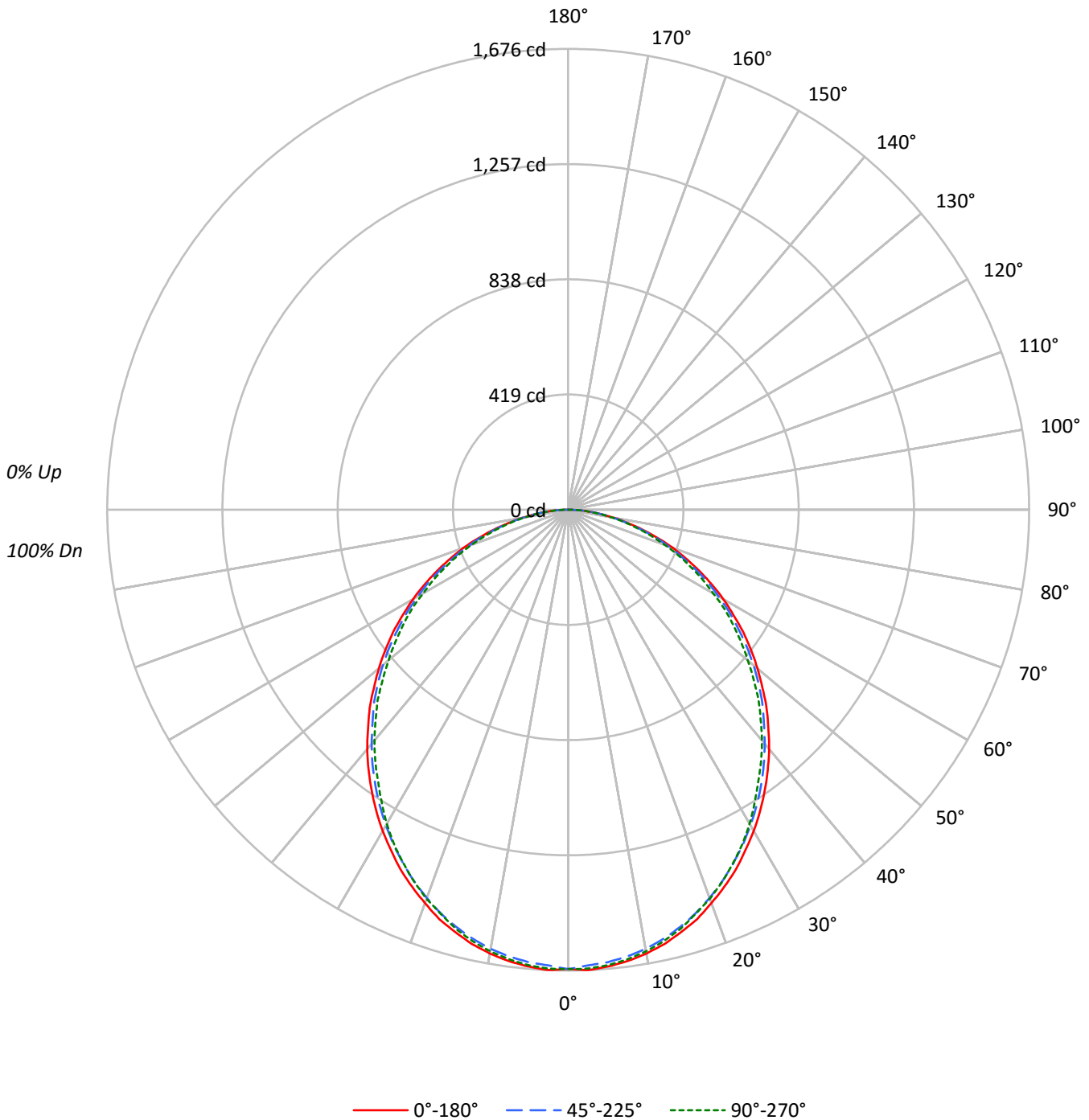
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11873	11873	11873
5°	11899	11786	11862
10°	11827	11703	11769
15°	11699	11562	11611
20°	11515	11365	11385
25°	11318	11131	11121
30°	11074	10878	10824
35°	10813	10607	10458
40°	10545	10312	10165
45°	10255	10042	9843
50°	9937	9718	9425
55°	9629	9350	9089
60°	9261	8979	8661
65°	8824	8535	8246
70°	8404	8019	7745
75°	7659	7403	7151
80°	6815	6708	6545
85°	5929	6035	5708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	3.6
10°-20°	445.2	10.2
20°-30°	657.3	15.1
30°-40°	766.9	17.6
40°-50°	770.3	17.7
50°-60°	676.2	15.6
60°-70°	503.6	11.6
70°-80°	287.6	6.6
80°-90°	83.0	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°	1260.2	29.0
0°-40°	2027.2	46.6
0°-60°	3473.6	79.9
0°-90°	4347.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4347.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1668	1665	1652	1664	1663	158
15°	1590	1586	1571	1578	1578	448
25°	1443	1437	1419	1422	1418	664
35°	1246	1241	1222	1216	1205	780
45°	1020	1015	999	983	979	786
55°	777	773	755	743	734	694
65°	525	522	508	496	490	520
75°	279	276	270	266	260	297
85°	73	74	74	73	70	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.5	1670.5	1670.5	1670.5	1670.5
2.5°	1675.8	1671.8	1658.6	1671.8	1670.5
5°	1667.8	1665.2	1652.0	1663.9	1662.6
7.5°	1655.9	1653.3	1638.8	1650.7	1649.3
10°	1638.8	1636.1	1621.6	1632.2	1630.8
12.5°	1617.6	1612.3	1599.1	1607.0	1607.0
15°	1589.9	1585.9	1571.4	1578.0	1578.0
17.5°	1560.8	1554.2	1539.6	1547.6	1541.0
20°	1522.5	1519.8	1502.6	1511.9	1505.3
22.5°	1484.1	1478.9	1463.0	1468.3	1464.3
25°	1443.2	1436.6	1419.4	1422.0	1418.1
27.5°	1395.6	1391.6	1374.4	1375.8	1371.8
30°	1349.3	1345.4	1325.5	1322.9	1318.9
32.5°	1299.1	1292.5	1275.3	1270.0	1262.1
35°	1246.3	1241.0	1222.5	1215.9	1205.3
37.5°	1192.1	1185.5	1168.3	1159.0	1152.4
40°	1136.6	1130.0	1111.5	1099.6	1095.6
42.5°	1077.1	1071.8	1053.3	1042.7	1036.1
45°	1020.3	1015.0	999.1	983.3	979.3
47.5°	958.1	959.5	939.6	923.8	914.5
50°	898.7	894.7	878.9	861.7	852.4
52.5°	837.9	835.2	818.1	803.5	793.0
55°	777.1	773.1	754.6	742.7	733.5
57.5°	712.3	711.0	695.2	679.3	675.3
60°	651.5	646.3	631.7	618.5	609.3
62.5°	588.1	584.1	572.2	557.7	551.1
65°	524.7	522.0	507.5	495.6	490.3
67.5°	462.6	457.3	446.7	436.1	433.5
70°	404.4	397.8	385.9	378.0	372.7
72.5°	341.0	337.0	330.4	321.1	315.9
75°	278.9	276.2	269.6	265.6	260.4
77.5°	220.7	219.4	215.4	212.8	208.8
80°	166.5	166.5	163.9	162.6	159.9
82.5°	118.9	116.3	116.3	113.7	113.7
85°	72.7	74.0	74.0	72.7	70.0
87.5°	35.7	35.7	34.4	34.4	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)