

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: P33925

Luminaire Tested: **S125DS-235-SR0048-1D-UDD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P33925
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DS-235-SR0048-1D-UDD-1-W
Description: NEORAY DIRECT- INDIRECT 5" FIXTURE WITH A FLUSH DIFFUSE
LENS.LL2
Light Source: [117] NICHIA 3500K LED
Nichia 757D
Ballast/Driver: [1] OSRAM SYLVANIA ELECTRONIC DRIVER
OT48WPRG2000C

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3936.3 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

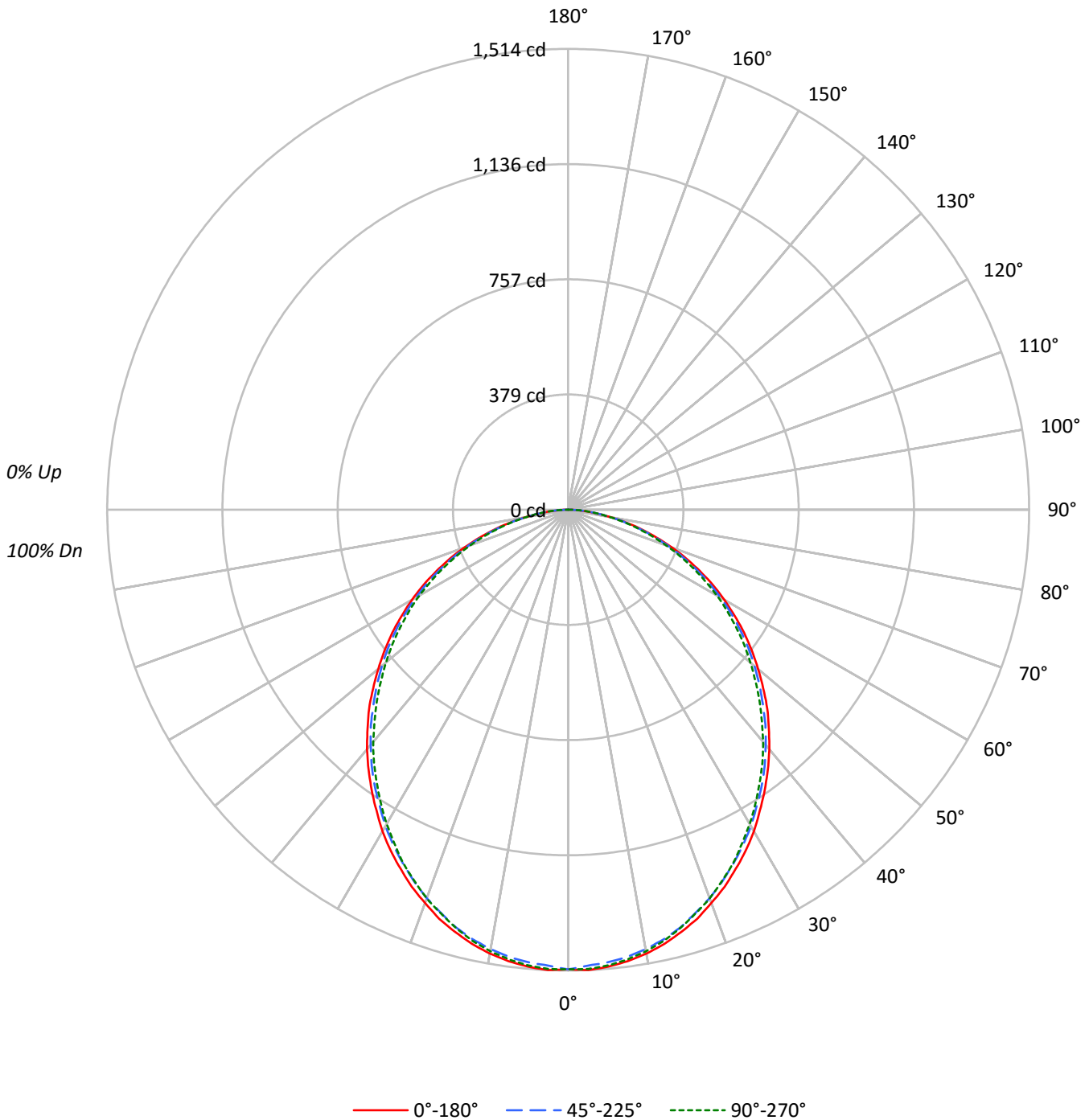
Input Watts (W): 43.9
Input Voltage (V): 120.02
Input Current (Ain): 3675
Voltage Rise (V): NR
Power Factor: 0.9989
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
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°	9752	9752	9752
5°	9770	9679	9744
10°	9712	9614	9660
15°	9601	9501	9514
20°	9450	9333	9340
25°	9278	9143	9136
30°	9098	8949	8889
35°	8870	8736	8641
40°	8667	8507	8397
45°	8448	8257	8120
50°	8179	8018	7847
55°	7938	7769	7578
60°	7647	7466	7285
65°	7289	7091	6907
70°	6855	6628	6439
75°	6263	6039	5889
80°	5281	5244	5207
85°	4298	4446	4520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.6
10°-20°	402.2	10.2
20°-30°	593.9	15.1
30°-40°	694.5	17.6
40°-50°	699.5	17.8
50°-60°	616.8	15.7
60°-70°	460.0	11.7
70°-80°	257.1	6.5
80°-90°	69.9	1.8
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°	1138.6	28.9
0°-40°	1833.1	46.6
0°-60°	3149.3	80.0
0°-90°	3936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1507	1504	1493	1504	1503	143
15°	1436	1434	1421	1426	1423	405
25°	1302	1299	1283	1284	1282	600
35°	1125	1123	1108	1101	1096	704
45°	925	919	904	896	889	712
55°	705	702	690	678	673	630
65°	477	474	464	455	452	473
75°	251	245	242	239	236	264
85°	58	58	60	62	61	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510	1510	1510	1510	1510
2.5°	1514	1511	1499	1511	1510
5°	1507	1504	1493	1504	1503
7.5°	1496	1493	1482	1492	1490
10°	1481	1477	1466	1475	1473
12.5°	1461	1458	1446	1453	1451
15°	1436	1434	1421	1426	1423
17.5°	1409	1405	1389	1396	1391
20°	1375	1374	1358	1361	1359
22.5°	1341	1337	1322	1325	1320
25°	1302	1299	1283	1284	1282
27.5°	1263	1259	1243	1242	1236
30°	1220	1215	1200	1198	1192
32.5°	1172	1168	1153	1150	1145
35°	1125	1123	1108	1101	1096
37.5°	1077	1074	1060	1050	1048
40°	1028	1022	1009	999	996
42.5°	975	971	959	950	941
45°	925	919	904	896	889
47.5°	869	867	852	843	834
50°	814	813	798	790	781
52.5°	760	758	745	732	728
55°	705	702	690	678	673
57.5°	648	646	635	624	619
60°	592	591	578	568	564
62.5°	536	532	522	513	507
65°	477	474	464	455	452
67.5°	420	416	407	400	397
70°	363	358	351	344	341
72.5°	304	301	296	291	288
75°	251	245	242	239	236
77.5°	195	191	191	189	187
80°	142	141	141	143	140
82.5°	95	96	97	99	98
85°	58	58	60	62	61
87.5°	26	28	29	31	32
90°	0	0	0	0	0

(END OF REPORT)