

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1034486

Luminaire Tested: S125DIW-B375D1340UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034486
REPORT IS A COMBINATION OF REPORTS P1003464 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

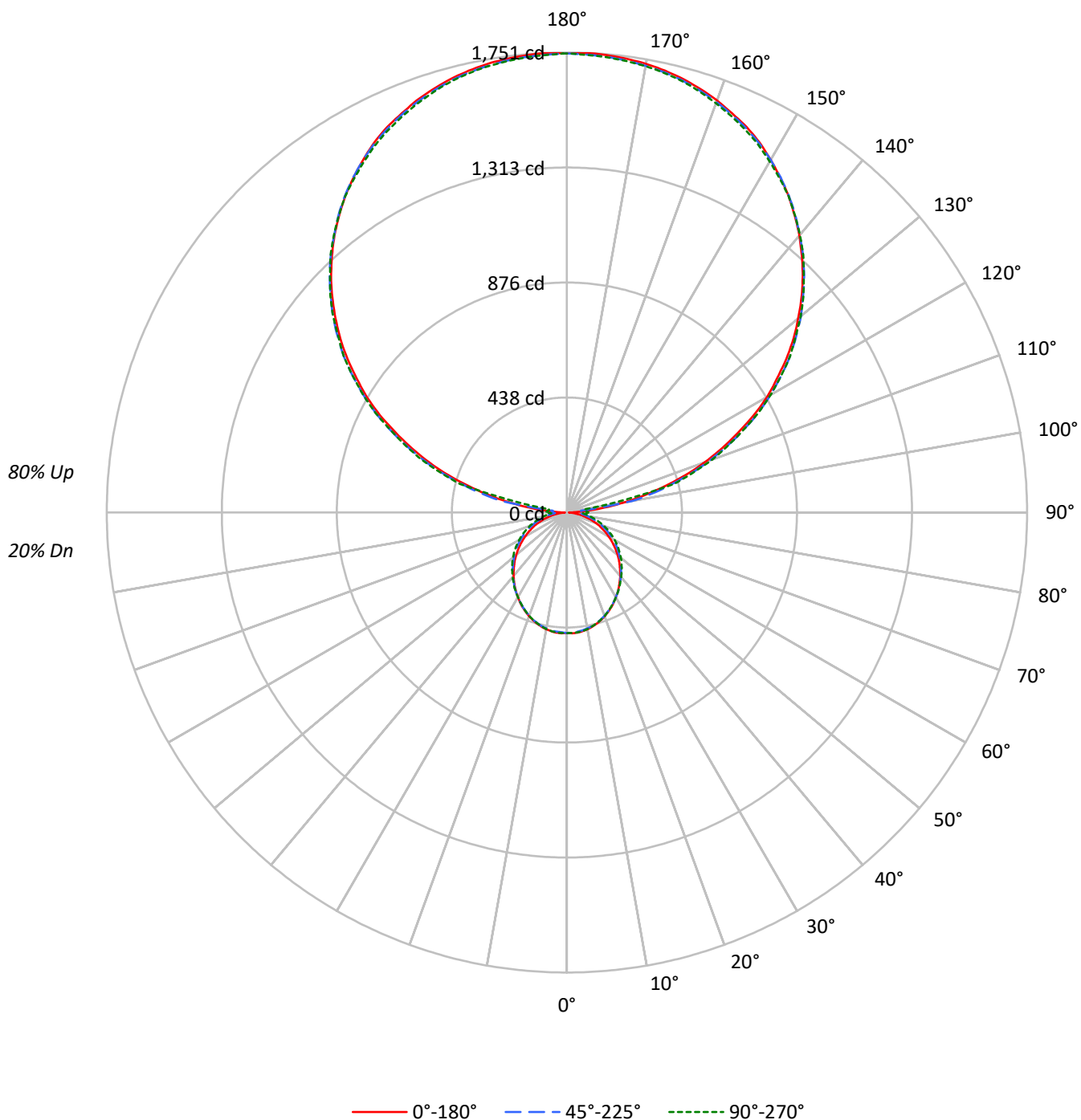
Lumens per Lamp: N/A
Luminaire Lumens: 6792.2 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	28	28	28
1	91	86	83	79	80	76	73	70	58	56	54	40	39	38	24	24	23
2	82	75	69	64	72	67	62	57	50	47	44	35	33	31	21	20	19
3	75	66	59	53	66	58	52	48	44	40	37	31	29	26	19	17	16
4	68	58	51	45	60	52	45	40	39	35	31	27	25	22	17	15	14
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	13	12
6	58	46	38	33	51	41	34	29	31	26	23	22	19	17	14	12	10
7	53	41	34	28	47	37	30	26	28	23	20	20	17	15	12	11	9
8	49	37	30	25	43	33	27	22	25	21	18	18	15	13	11	10	8
9	46	34	27	22	40	30	24	20	23	19	16	17	14	11	10	9	7
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.6
10°-20°	123.3	1.8
20°-30°	183.4	2.7
30°-40°	217.2	3.2
40°-50°	224.5	3.3
50°-60°	206.8	3.0
60°-70°	167.2	2.5
70°-80°	111.9	1.6
80°-90°	60.4	0.9
90°-100°	91.9	1.4
100°-110°	418.4	6.2
110°-120°	726.3	10.7
120°-130°	920.6	13.6
130°-140°	984.4	14.5
140°-150°	920.9	13.6
150°-160°	744.3	11.0
160°-170°	481.3	7.1
170°-180°	166.0	2.4
0°-30°	350.1	5.2
0°-40°	567.3	8.4
0°-60°	998.6	14.7
0°-90°	1338.1	19.7
90°-120°	1236.6	18.2
90°-150°	4062.5	59.8
90°-180°	5454.0	80.3
0°-180°	6792.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	33	58	74	82	9
95°	80	88	54	70	73	95
105°	385	397	411	420	422	408
115°	718	727	740	743	738	712
125°	1019	1027	1036	1038	1037	910
135°	1269	1276	1277	1280	1275	978
145°	1471	1473	1473	1476	1470	920
155°	1619	1611	1614	1618	1607	746
165°	1708	1701	1702	1710	1699	483
175°	1747	1740	1741	1751	1740	166
180°	1747	1747	1747	1747	1747	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.5	33.3	57.6	74.5	81.5
92.5°	30.9	32.4	55.8	72.2	76.7
95°	79.7	87.5	53.6	70.0	73.1
97.5°	144.0	162.6	54.4	66.4	70.9
100°	221.3	234.6	254.2	70.7	68.2
102.5°	299.8	313.6	330.1	341.7	235.6
105°	384.9	397.3	410.8	419.8	421.6
107.5°	472.5	478.8	494.5	504.8	502.3
110°	557.6	563.0	578.2	582.8	587.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	637.9	645.8	659.3	662.2	662.7
115°	717.7	727.4	740.4	743.3	738.2
117.5°	801.5	803.7	820.2	820.0	820.6
120°	879.2	879.2	893.5	898.5	894.7
122.5°	947.3	954.3	965.5	970.1	965.1
125°	1018.6	1027.3	1036.3	1038.3	1036.6
127.5°	1086.8	1092.8	1099.2	1103.3	1095.7
130°	1149.0	1155.0	1162.6	1165.0	1160.8
132.5°	1210.7	1218.5	1219.1	1225.4	1220.7
135°	1269.0	1276.3	1276.9	1280.2	1274.6
137.5°	1323.4	1330.7	1330.0	1335.4	1330.7
140°	1376.1	1378.7	1377.8	1385.4	1379.4
142.5°	1424.0	1424.8	1427.4	1431.5	1425.5
145°	1470.6	1472.7	1472.7	1476.3	1470.3
147.5°	1511.6	1511.6	1512.9	1515.1	1506.9
150°	1550.4	1547.9	1550.4	1553.0	1543.2
152.5°	1588.0	1581.5	1584.1	1586.7	1577.6
155°	1619.1	1611.3	1613.9	1617.8	1607.4
157.5°	1643.7	1639.8	1639.8	1643.7	1633.3
160°	1669.6	1661.8	1663.1	1668.3	1657.9
162.5°	1690.3	1682.6	1683.9	1691.6	1680.0
165°	1708.5	1700.7	1702.0	1709.8	1699.4
167.5°	1722.7	1714.9	1716.2	1725.3	1713.6
170°	1734.4	1725.3	1726.6	1737.0	1725.3
172.5°	1742.1	1733.1	1735.7	1744.7	1733.1
175°	1747.3	1739.6	1740.8	1751.2	1739.6
177.5°	1751.2	1743.4	1744.7	1753.8	1743.4
180°	1747.3	1747.3	1747.3	1747.3	1747.3

(END OF REPORT)