

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: P1035241

Luminaire Tested: S125DIW-B375D1050UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035241
REPORT IS A COMBINATION OF REPORTS P1003412 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1050UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

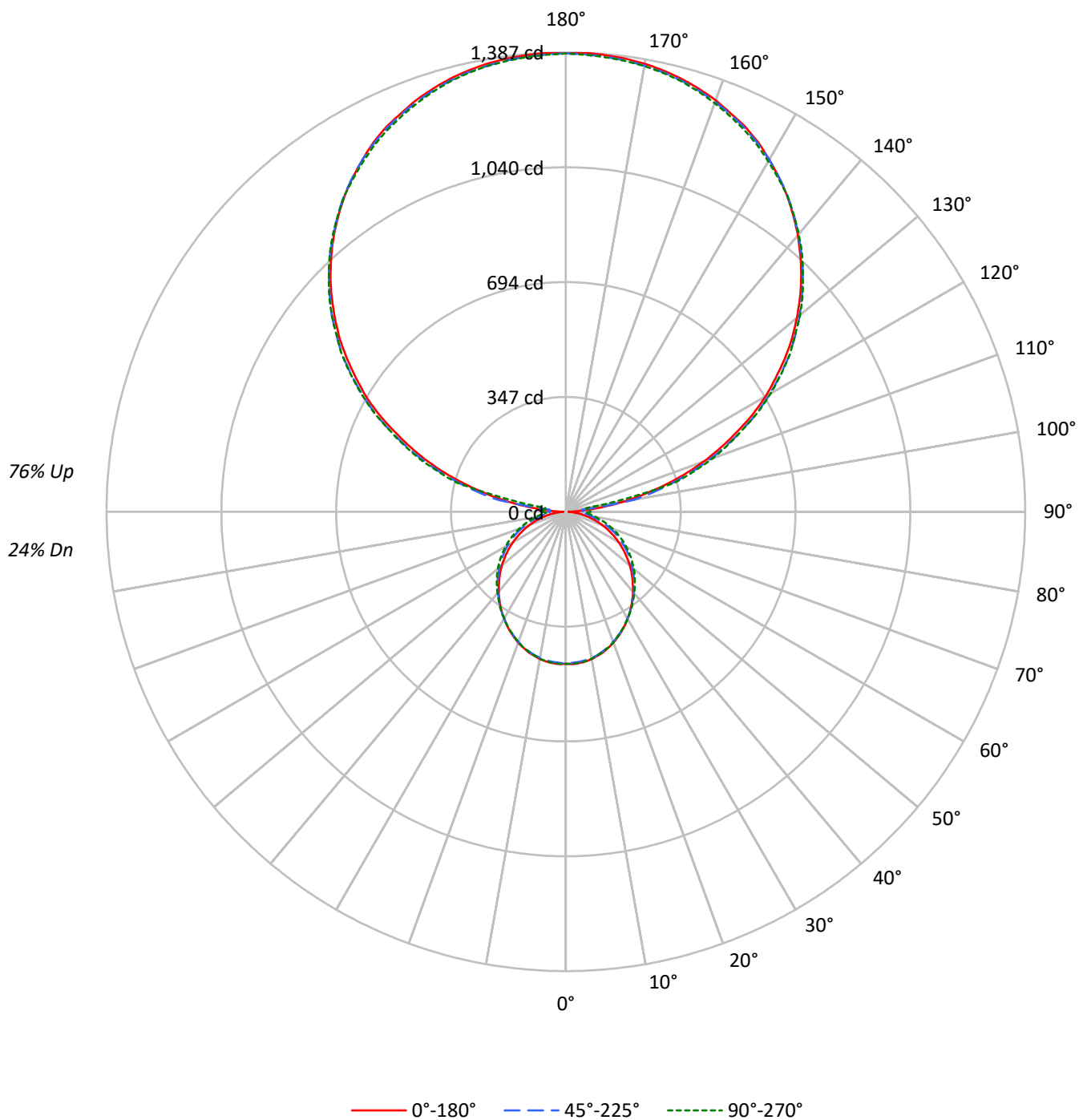
Lumens per Lamp: N/A
Luminaire Lumens: 5675.2 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	92	87	83	80	81	78	74	71	59	57	55	43	42	40	28	27	26
2	83	76	70	65	74	68	63	58	52	48	45	37	35	33	24	23	22
3	76	67	59	54	67	59	53	48	46	41	38	33	30	28	21	20	18
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	17	15	14
6	58	46	39	33	51	42	35	30	32	27	24	23	20	18	15	13	12
7	54	42	34	29	47	37	31	26	29	24	21	21	18	16	14	12	10
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9
9	46	34	27	22	41	31	24	20	24	19	16	18	14	12	12	10	8
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	11	9	8

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	0.8
10°-20°	123.3	2.2
20°-30°	183.4	3.2
30°-40°	217.2	3.8
40°-50°	224.5	4.0
50°-60°	206.8	3.6
60°-70°	167.2	2.9
70°-80°	111.9	2.0
80°-90°	59.9	1.1
90°-100°	79.6	1.4
100°-110°	336.4	5.9
110°-120°	578.5	10.2
120°-130°	731.0	12.9
130°-140°	780.4	13.8
140°-150°	729.5	12.9
150°-160°	589.5	10.4
160°-170°	381.2	6.7
170°-180°	131.5	2.3
0°-30°	350.1	6.2
0°-40°	567.3	10.0
0°-60°	998.6	17.6
0°-90°	1337.6	23.6
90°-120°	994.4	17.5
90°-150°	3235.5	57.0
90°-180°	4338.0	76.4
0°-180°	5675.2	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	31	53	69	75	8
95°	64	73	49	64	67	76
105°	306	317	330	340	342	324
115°	569	577	590	594	591	564
125°	807	814	823	826	825	721
135°	1005	1011	1012	1016	1012	775
145°	1165	1166	1166	1170	1165	728
155°	1282	1276	1278	1281	1273	591
165°	1353	1347	1348	1354	1346	382
175°	1384	1378	1379	1387	1378	132
180°	1384	1384	1384	1384	1384	

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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°	8.2	30.8	53.3	68.8	75.0
92.5°	25.8	29.7	51.5	66.5	70.8
95°	64.4	73.0	49.3	64.3	67.4
97.5°	115.2	132.1	49.6	61.0	65.2
100°	176.3	188.8	207.3	63.9	62.5
102.5°	238.4	251.1	267.0	278.1	194.6
105°	305.7	317.0	330.5	339.5	341.6
107.5°	375.0	381.3	396.4	406.4	405.0
110°	442.3	447.7	462.3	467.7	472.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	505.9	512.9	526.2	530.2	531.2
115°	569.0	577.3	590.0	594.0	590.6
117.5°	635.2	637.4	652.9	654.3	655.4
120°	696.8	697.1	710.5	716.1	713.7
122.5°	750.7	756.3	767.2	772.4	768.9
125°	807.1	813.9	822.9	826.0	825.1
127.5°	861.1	865.7	872.4	877.0	871.5
130°	910.3	914.9	922.3	925.5	922.6
132.5°	959.0	965.2	966.6	972.9	969.6
135°	1005.2	1011.0	1012.0	1015.9	1011.9
137.5°	1048.3	1054.0	1053.8	1059.2	1055.9
140°	1089.9	1092.0	1091.4	1098.4	1094.1
142.5°	1127.9	1128.4	1130.5	1134.6	1130.2
145°	1164.8	1166.4	1166.4	1169.7	1165.4
147.5°	1197.2	1197.2	1198.2	1200.1	1193.8
150°	1227.9	1225.9	1227.9	1230.0	1222.3
152.5°	1257.7	1252.6	1254.6	1256.7	1249.5
155°	1282.3	1276.2	1278.2	1281.3	1273.1
157.5°	1301.8	1298.7	1298.7	1301.8	1293.6
160°	1322.3	1316.2	1317.2	1321.3	1313.1
162.5°	1338.7	1332.6	1333.6	1339.8	1330.5
165°	1353.1	1346.9	1348.0	1354.1	1345.9
167.5°	1364.4	1358.2	1359.2	1366.4	1357.2
170°	1373.6	1366.4	1367.5	1375.7	1366.4
172.5°	1379.8	1372.6	1374.6	1381.8	1372.6
175°	1383.9	1377.7	1378.7	1386.9	1377.7
177.5°	1386.9	1380.8	1381.8	1389.0	1380.8
180°	1383.9	1383.9	1383.9	1383.9	1383.9

(END OF REPORT)