

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: P1035272

Luminaire Tested: S125DIW-B375D1340UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035272
REPORT IS A COMBINATION OF REPORTS P1003479 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1340UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

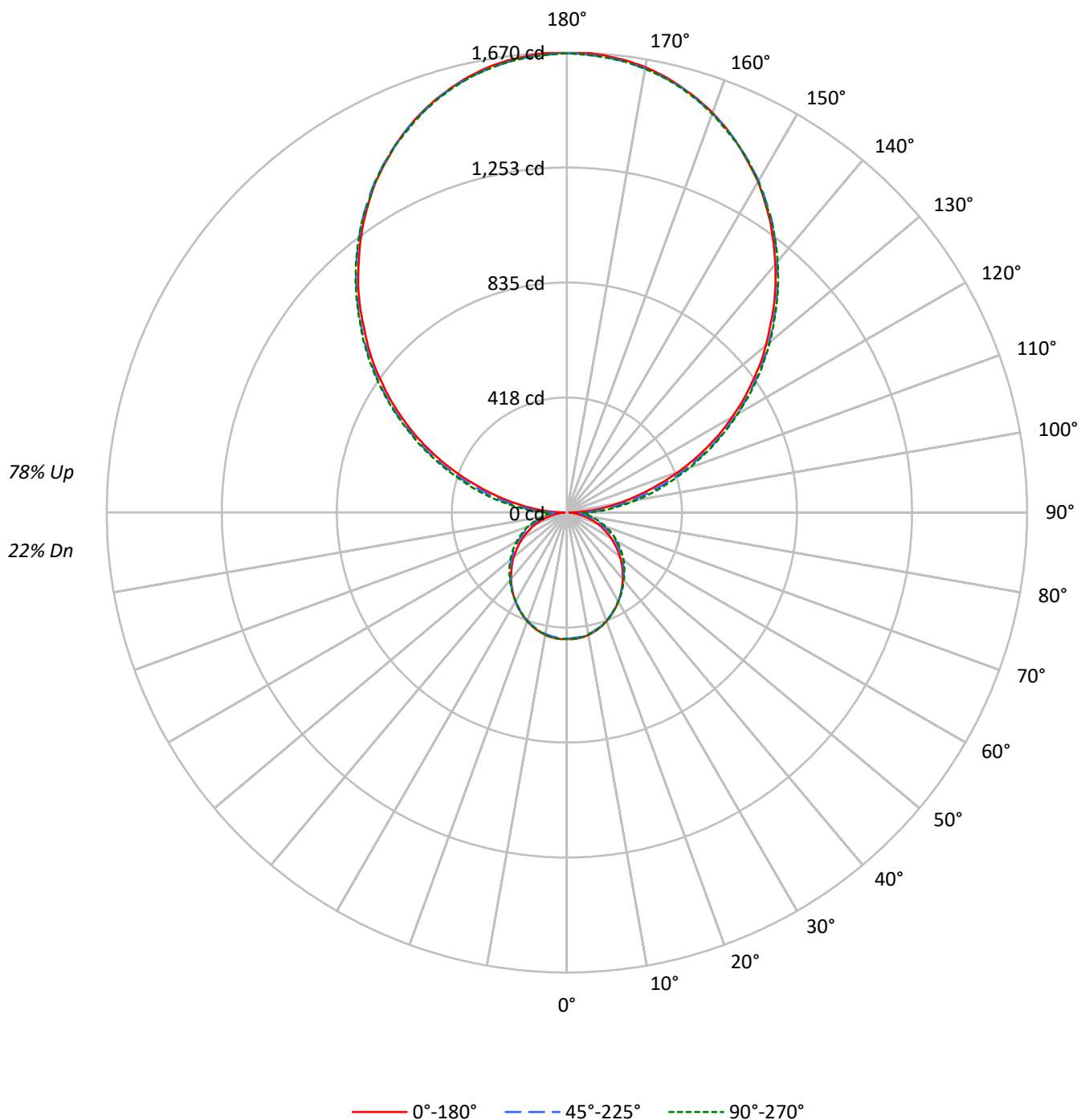
Lumens per Lamp: N/A
Luminaire Lumens: 6079.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	30	30	22
1	91	87	83	80	81	77	74	71	59	57	55	42	41	39	26	26	25	25	25	18
2	83	76	70	65	73	67	62	58	51	48	45	37	34	33	23	22	21	21	21	15
3	75	66	59	54	67	59	53	48	45	41	38	32	30	27	20	19	17	17	17	12
4	69	58	51	45	61	52	46	41	40	35	32	28	26	23	18	16	15	15	15	10
5	63	52	44	38	56	46	39	35	35	31	27	25	22	20	16	14	13	13	13	9
6	58	46	38	33	51	41	35	30	32	27	23	23	20	17	15	13	11	11	11	8
7	53	42	34	29	47	37	31	26	29	24	20	21	18	15	13	11	10	10	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	13	12	10	9	9	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	8	8	6
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	10	8	7	7	7	5

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	0.7
10°-20°	123.3	2.0
20°-30°	183.4	3.0
30°-40°	217.2	3.6
40°-50°	224.5	3.7
50°-60°	206.8	3.4
60°-70°	167.2	2.8
70°-80°	111.9	1.8
80°-90°	60.5	1.0
90°-100°	143.5	2.4
100°-110°	353.5	5.8
110°-120°	574.8	9.5
120°-130°	744.7	12.2
130°-140°	828.2	13.6
140°-150°	808.7	13.3
150°-160°	678.6	11.2
160°-170°	451.1	7.4
170°-180°	157.9	2.6
0°-30°	350.1	5.8
0°-40°	567.3	9.3
0°-60°	998.6	16.4
0°-90°	1338.1	22.0
90°-120°	1071.8	17.6
90°-150°	3453.5	56.8
90°-180°	4741.0	78.0
0°-180°	6079.2	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	75	82	11
95°	90	105	133	152	158	93
105°	300	314	335	352	359	320
115°	562	570	585	592	593	556
125°	818	826	836	840	841	733
135°	1062	1070	1074	1080	1077	819
145°	1287	1291	1295	1298	1295	804
155°	1472	1472	1473	1478	1472	678
165°	1600	1598	1599	1604	1596	452
175°	1664	1659	1659	1666	1657	158
180°	1668	1668	1668	1668	1668	

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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	57.7	74.6	81.5
92.5°	45.2	64.8	92.2	111.2	117.0
95°	90.3	104.6	132.8	151.8	157.5
97.5°	135.2	147.3	180.3	197.5	202.0
100°	186.7	196.1	227.4	248.5	253.8
102.5°	242.0	257.1	277.5	299.5	306.1
105°	300.0	313.7	335.0	351.8	358.8
107.5°	363.1	375.9	395.5	408.4	411.1
110°	428.9	440.8	457.3	469.7	471.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	496.4	503.0	520.4	529.8	530.3
115°	562.1	570.5	584.7	591.5	593.0
117.5°	629.1	632.6	646.5	655.4	653.4
120°	691.4	699.2	710.9	718.5	716.0
122.5°	758.4	760.2	774.0	779.9	778.7
125°	818.1	825.5	835.8	840.4	841.3
127.5°	883.9	887.3	896.3	901.7	901.8
130°	942.3	948.3	957.2	962.2	961.9
132.5°	1000.2	1011.9	1015.1	1020.1	1018.0
135°	1062.5	1069.9	1074.3	1080.2	1077.2
137.5°	1120.9	1128.3	1132.7	1139.4	1134.7
140°	1176.3	1182.8	1187.1	1194.7	1190.0
142.5°	1232.1	1236.8	1242.0	1247.4	1242.7
145°	1286.6	1291.3	1295.2	1297.5	1295.4
147.5°	1336.8	1340.6	1343.2	1348.0	1338.6
150°	1387.4	1386.1	1391.3	1391.3	1389.2
152.5°	1428.9	1431.5	1432.8	1436.7	1431.5
155°	1471.7	1471.7	1473.0	1478.2	1471.7
157.5°	1510.7	1508.1	1509.4	1514.6	1505.5
160°	1544.4	1540.5	1541.8	1547.0	1540.5
162.5°	1574.3	1571.7	1571.7	1578.1	1570.4
165°	1600.2	1597.6	1598.9	1604.1	1596.3
167.5°	1623.6	1618.4	1618.4	1626.2	1618.4
170°	1641.7	1636.5	1636.5	1644.3	1635.3
172.5°	1654.7	1649.5	1649.5	1657.3	1649.5
175°	1663.8	1658.6	1658.6	1666.4	1657.3
177.5°	1670.3	1665.1	1663.8	1671.6	1662.5
180°	1667.7	1667.7	1667.7	1667.7	1667.7

(END OF REPORT)