

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: P1035235

Luminaire Tested: S125DIW-B375D1050UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035235
REPORT IS A COMBINATION OF REPORTS P1003382 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D1050UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

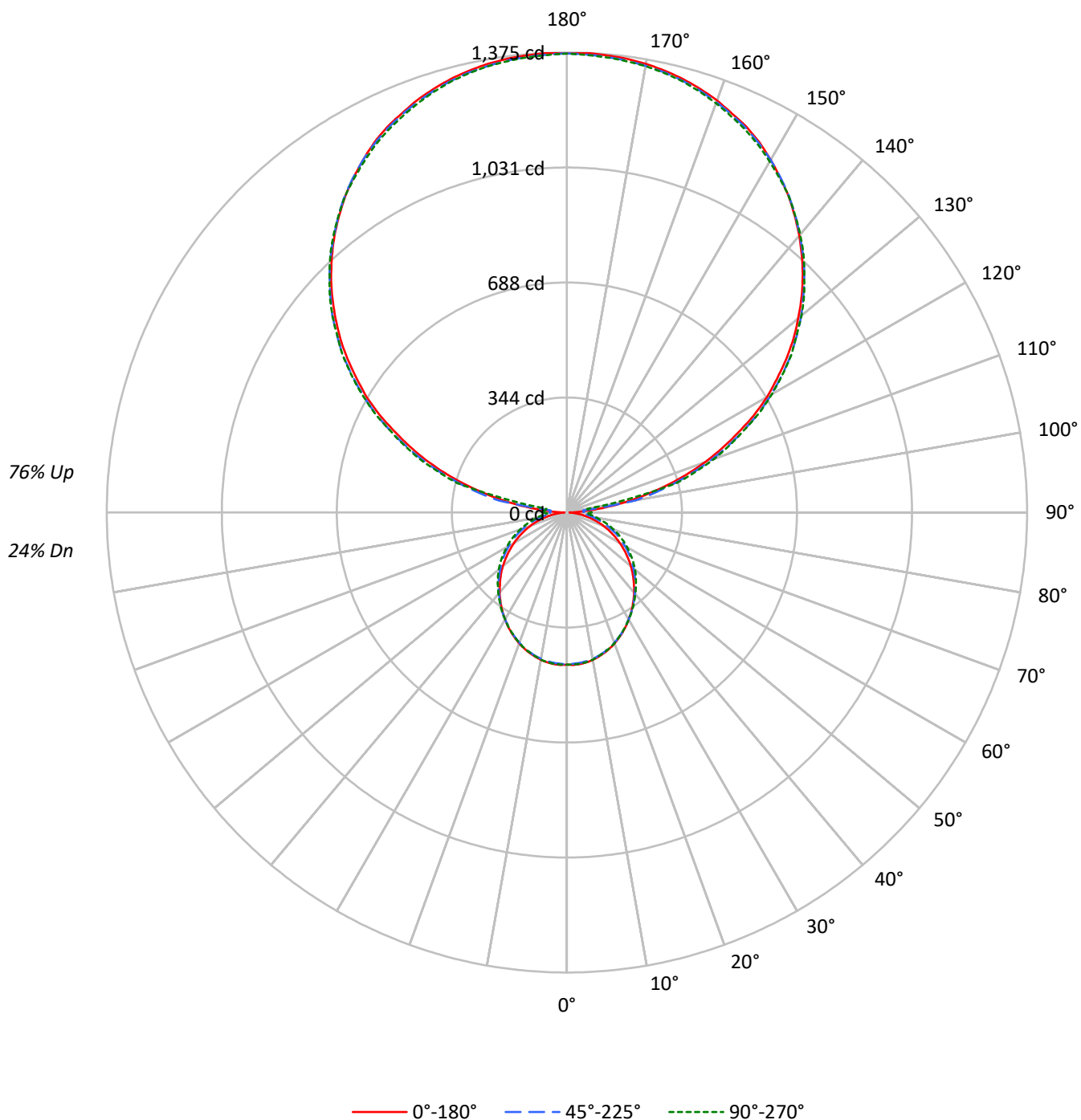
Lumens per Lamp: N/A
Luminaire Lumens: 5625.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
Input Voltage (V):
Input Current (A_{in}): 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°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.8
10°-20°	122.2	2.2
20°-30°	181.7	3.2
30°-40°	215.2	3.8
40°-50°	222.5	4.0
50°-60°	204.9	3.6
60°-70°	165.7	2.9
70°-80°	110.8	2.0
80°-90°	59.3	1.1
90°-100°	78.9	1.4
100°-110°	333.4	5.9
110°-120°	573.5	10.2
120°-130°	724.6	12.9
130°-140°	773.6	13.8
140°-150°	723.2	12.9
150°-160°	584.3	10.4
160°-170°	377.9	6.7
170°-180°	130.3	2.3
0°-30°	346.9	6.2
0°-40°	562.1	10.0
0°-60°	989.5	17.6
0°-90°	1325.3	23.6
90°-120°	985.7	17.5
90°-150°	3207.1	57.0
90°-180°	4300.0	76.4
0°-180°	5625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	31	53	68	74	8
95°	64	72	49	64	67	76
105°	303	314	328	336	339	321
115°	564	572	585	589	585	559
125°	800	807	816	819	818	715
135°	996	1002	1003	1007	1003	768
145°	1155	1156	1156	1160	1155	722
155°	1271	1265	1267	1270	1262	586
165°	1341	1335	1336	1342	1334	379
175°	1372	1366	1367	1375	1366	131
180°	1372	1372	1372	1372	1372	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	8.1	30.6	52.9	68.2	74.3
92.5°	25.5	29.4	51.1	66.0	70.1
95°	63.8	72.3	48.9	63.8	66.9
97.5°	114.2	131.0	49.1	60.4	64.7
100°	174.7	187.2	205.4	63.3	62.0
102.5°	236.4	248.8	264.8	275.7	192.9
105°	303.0	314.1	327.5	336.4	338.6
107.5°	371.7	377.9	392.9	402.9	401.4
110°	438.3	443.7	458.3	463.6	467.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	501.4	508.4	521.6	525.5	526.6
115°	564.0	572.2	584.8	588.8	585.4
117.5°	629.6	631.9	647.1	648.6	649.7
120°	690.7	691.0	704.3	709.9	707.5
122.5°	744.2	749.6	760.5	765.6	762.1
125°	800.1	806.7	815.7	818.7	817.9
127.5°	853.5	858.2	864.7	869.4	863.9
130°	902.3	907.0	914.2	917.4	914.6
132.5°	950.7	956.8	958.3	964.5	961.2
135°	996.5	1002.1	1003.2	1007.0	1003.1
137.5°	1039.2	1044.8	1044.5	1049.9	1046.7
140°	1080.4	1082.4	1081.9	1088.8	1084.5
142.5°	1118.0	1118.6	1120.6	1124.6	1120.3
145°	1154.6	1156.2	1156.2	1159.5	1155.2
147.5°	1186.7	1186.7	1187.8	1189.7	1183.5
150°	1217.3	1215.2	1217.3	1219.3	1211.6
152.5°	1246.7	1241.7	1243.7	1245.7	1238.6
155°	1271.2	1265.1	1267.1	1270.1	1262.0
157.5°	1290.5	1287.4	1287.4	1290.5	1282.3
160°	1310.8	1304.7	1305.7	1309.8	1301.7
162.5°	1327.1	1321.0	1322.0	1328.1	1318.9
165°	1341.3	1335.2	1336.2	1342.3	1334.2
167.5°	1352.5	1346.4	1347.4	1354.5	1345.4
170°	1361.7	1354.5	1355.6	1363.7	1354.5
172.5°	1367.8	1360.6	1362.7	1369.8	1360.6
175°	1371.8	1365.7	1366.7	1374.9	1365.7
177.5°	1374.9	1368.8	1369.8	1376.9	1368.8
180°	1371.8	1371.8	1371.8	1371.8	1371.8

(END OF REPORT)