

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: P1027398

Luminaire Tested: S125DIP-B1090D375UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027398
REPORT IS A COMBINATION OF REPORTS P1001343 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

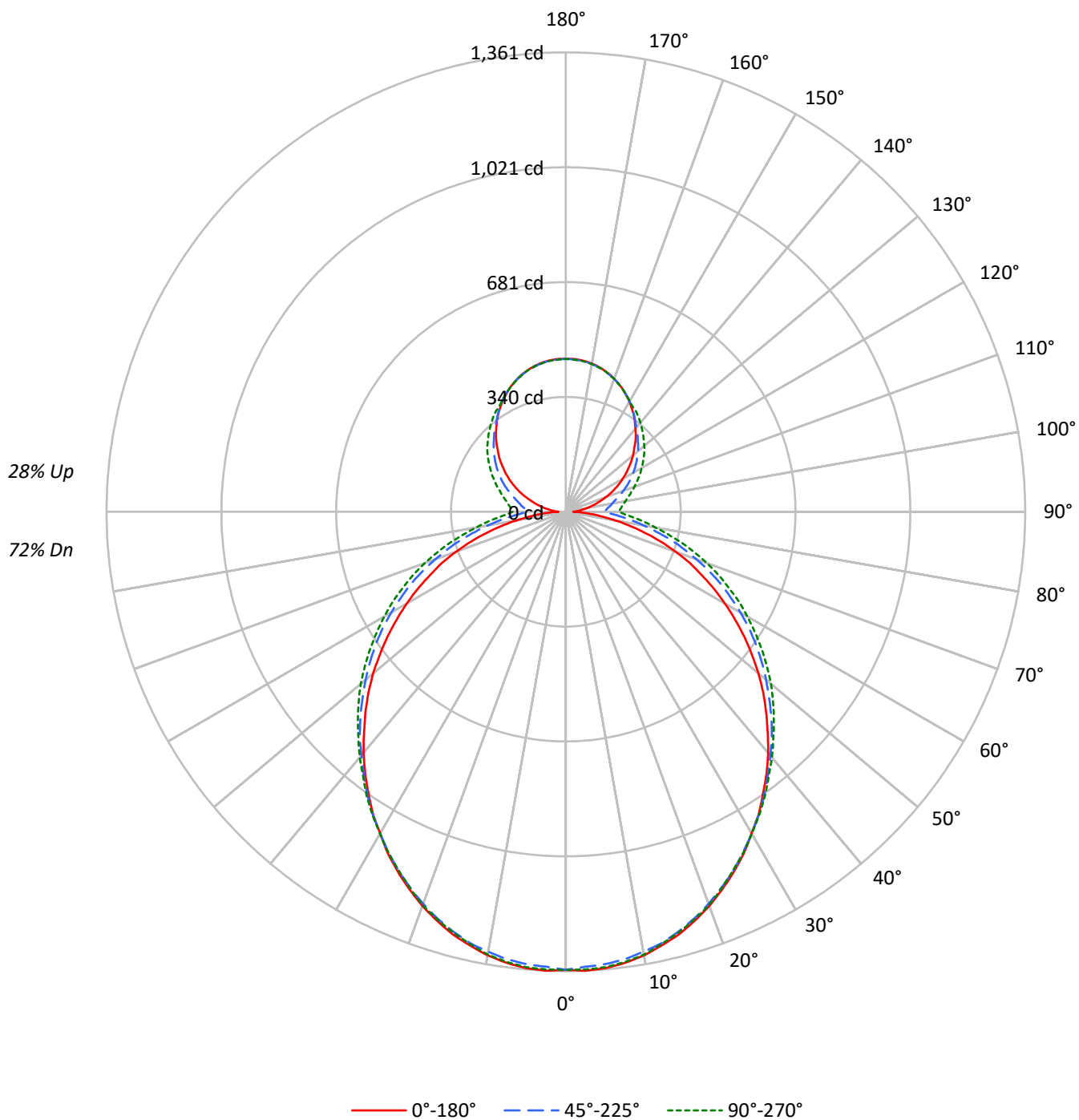
Lumens per Lamp: N/A
Luminaire Lumens: 5469.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77
1	102	97	92	88	96	92	88	84	82	79	77	74	72	69	66	64	63
2	92	84	77	71	87	80	74	68	72	67	63	64	60	57	57	55	52
3	84	73	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	37
5	70	58	49	43	66	55	47	41	50	43	38	45	40	35	40	36	32
6	65	52	43	37	61	50	42	36	45	38	33	41	35	31	37	32	28
7	60	47	38	32	57	45	37	31	41	34	29	37	31	27	33	29	25
8	56	43	34	29	53	41	33	28	37	31	26	34	28	24	31	26	23
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20
10	49	36	28	23	46	34	27	23	32	25	21	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.3
10°-20°	364.6	6.7
20°-30°	542.1	9.9
30°-40°	642.0	11.7
40°-50°	663.7	12.1
50°-60°	611.4	11.2
60°-70°	494.3	9.0
70°-80°	330.7	6.0
80°-90°	171.7	3.1
90°-100°	126.4	2.3
100°-110°	160.5	2.9
110°-120°	199.3	3.6
120°-130°	226.7	4.1
130°-140°	235.7	4.3
140°-150°	221.8	4.1
150°-160°	184.3	3.4
160°-170°	122.5	2.2
170°-180°	42.9	0.8
0°-30°	1035.1	18.9
0°-40°	1677.1	30.7
0°-60°	2952.3	54.0
0°-90°	3948.9	72.2
90°-120°	486.2	8.9
90°-150°	1170.4	21.4
90°-180°	1520.0	27.8
0°-180°	5469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	67	115	147	158	16
95°	40	76	124	156	166	38
105°	92	115	158	186	196	98
115°	160	171	206	230	237	158
125°	227	228	255	275	282	203
135°	291	292	301	319	324	224
145°	351	351	352	358	363	219
155°	400	400	400	402	400	184
165°	435	434	434	436	434	123
175°	452	450	450	453	450	43
180°	453	453	453	453	453	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	21.7	67.1	114.7	147.1	157.5
92.5°	29.2	69.5	119.3	151.0	161.1
95°	40.2	75.5	124.2	156.0	166.0
97.5°	51.3	83.5	132.3	162.4	172.1
100°	64.0	92.0	139.1	170.2	178.9
102.5°	77.8	104.9	147.8	178.0	187.0
105°	92.4	115.4	157.5	186.2	196.5
107.5°	108.3	128.7	169.1	196.7	204.6
110°	124.9	142.7	181.0	207.3	216.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.3	156.0	193.3	217.6	226.2
115°	159.9	170.7	206.0	229.5	237.2
117.5°	177.0	183.9	217.9	240.9	248.8
120°	193.9	199.6	230.5	253.2	259.7
122.5°	210.8	212.6	242.8	263.8	270.7
125°	227.0	227.9	254.8	275.4	281.7
127.5°	243.7	243.5	266.4	286.0	293.3
130°	259.6	260.0	279.4	297.6	303.6
132.5°	274.1	277.3	290.3	308.5	312.8
135°	291.1	291.8	301.4	318.7	324.0
137.5°	306.9	307.6	313.8	330.0	333.5
140°	320.7	322.5	324.9	340.2	343.8
142.5°	335.9	336.0	337.4	349.7	353.3
145°	350.7	350.8	351.8	358.5	362.8
147.5°	363.1	364.2	364.9	368.6	368.4
150°	376.9	376.5	377.9	377.9	378.5
152.5°	388.1	388.8	389.2	390.3	388.8
155°	399.8	399.8	400.1	401.5	399.8
157.5°	410.3	409.6	410.0	411.4	408.9
160°	419.5	418.5	418.8	420.2	418.5
162.5°	427.6	426.9	426.9	428.7	426.6
165°	434.7	434.0	434.3	435.7	433.6
167.5°	441.0	439.6	439.6	441.7	439.6
170°	446.0	444.5	444.5	446.7	444.2
172.5°	449.5	448.1	448.1	450.2	448.1
175°	451.9	450.5	450.5	452.7	450.2
177.5°	453.7	452.3	451.9	454.1	451.6
180°	453.0	453.0	453.0	453.0	453.0

(END OF REPORT)