

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: P1028313

Luminaire Tested: S125DIP-B850D375UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028313
REPORT IS A COMBINATION OF REPORTS P1002585 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D375UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

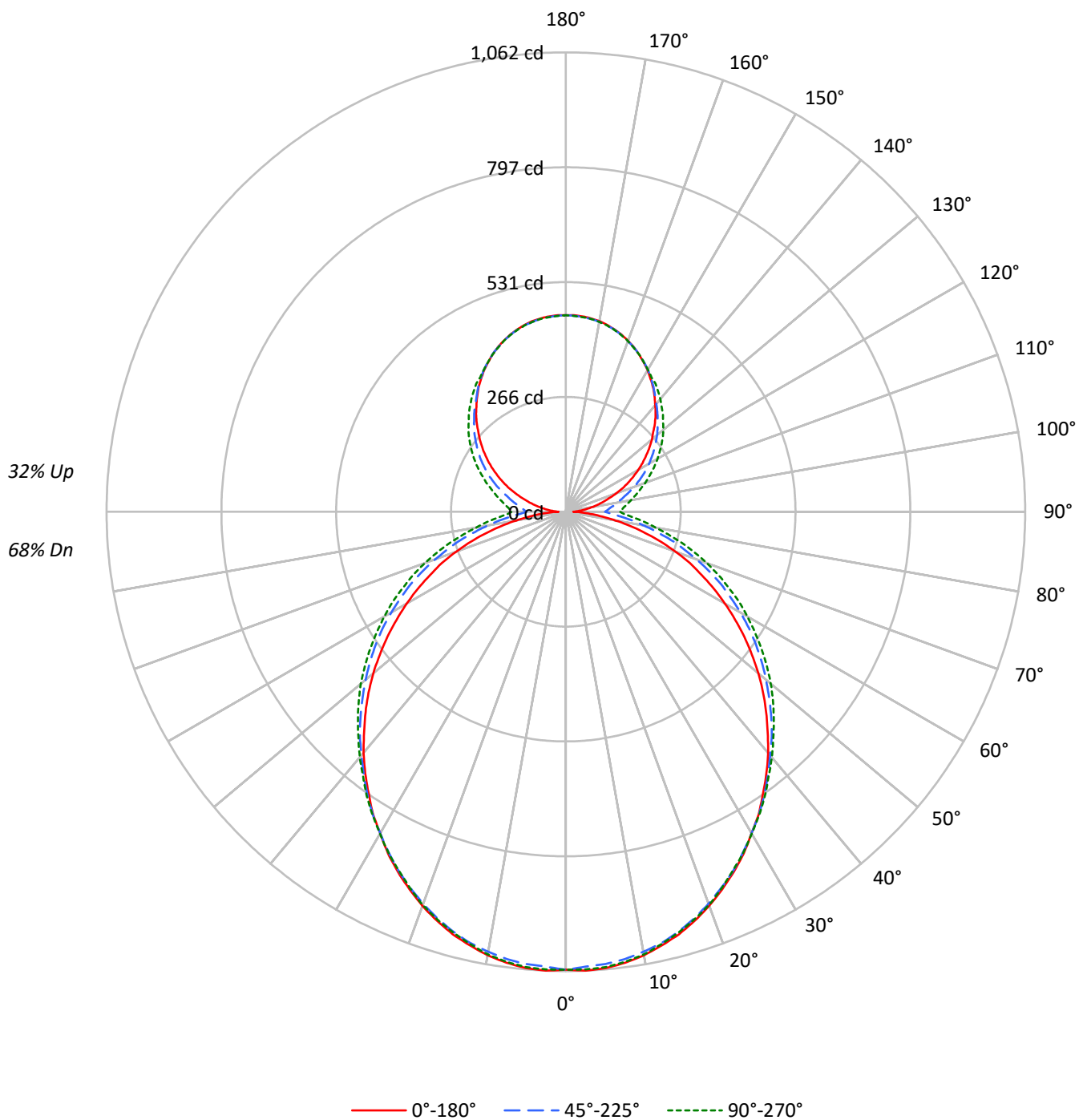
Lumens per Lamp: N/A
Luminaire Lumens: 4549.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	62	62	62
1	101	96	91	88	95	90	87	83	80	77	75	71	69	67	62	61	59	55	54	52
2	91	83	76	71	86	79	73	67	70	65	61	62	58	55	54	52	49	45	44	41
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41	38	37	35
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	35	32	31	28
5	70	57	49	42	65	54	46	41	49	42	37	43	38	34	38	34	31	28	27	24
6	64	51	43	37	60	49	41	35	44	37	32	39	34	30	35	30	27	24	23	21
7	59	46	38	32	56	44	36	31	40	33	29	36	30	26	32	27	24	21	20	19
8	55	42	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21	19	18	17
9	51	39	31	25	48	37	30	25	33	27	23	30	25	21	27	22	19	17	16	15
10	48	35	28	23	45	34	27	22	31	25	21	28	23	19	25	21	18	16	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6784	6784	6784
5°	6795	6642	6658
10°	6744	6507	6488
15°	6662	6348	6278
20°	6551	6158	6071
25°	6420	5956	5819
30°	6261	5735	5590
35°	6112	5531	5379
40°	5961	5317	5167
45°	5790	5131	4976
50°	5627	4929	4804
55°	5430	4737	4603
60°	5215	4517	4398
65°	4989	4286	4167
70°	4731	3977	3926
75°	4325	3670	3633
80°	3791	3298	3308
85°	3265	3003	3137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.2
10°-20°	284.4	6.3
20°-30°	422.9	9.3
30°-40°	500.9	11.0
40°-50°	517.8	11.4
50°-60°	477.0	10.5
60°-70°	385.6	8.5
70°-80°	258.0	5.7
80°-90°	134.1	2.9
90°-100°	105.3	2.3
100°-110°	145.2	3.2
110°-120°	189.3	4.2
120°-130°	221.4	4.9
130°-140°	233.8	5.1
140°-150°	222.0	4.9
150°-160°	184.9	4.1
160°-170°	122.9	2.7
170°-180°	43.0	0.9
0°-30°	807.6	17.8
0°-40°	1308.5	28.8
0°-60°	2303.4	50.6
0°-90°	3081.1	67.7
90°-120°	439.8	9.7
90°-150°	1117.0	24.6
90°-180°	1468.0	32.3
0°-180°	4549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1059	1057	1050	1058	1057	100
15°	1011	1012	1005	1011	1007	285
25°	919	922	916	920	914	423
35°	795	802	799	802	802	498
45°	655	666	672	679	680	505
55°	504	520	537	548	552	450
65°	347	371	396	411	415	344
75°	191	218	251	272	277	202
85°	57	91	128	150	159	60
90°	17	53	91	116	125	13
95°	36	64	103	128	136	35
105°	90	108	142	164	173	96
115°	159	167	195	213	219	157
125°	227	228	249	265	270	203
135°	291	292	300	314	317	225
145°	352	352	353	358	361	220
155°	401	401	401	403	401	185
165°	436	435	436	437	435	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1061.9	1059.8	1052.6	1059.8	1058.8
5°	1058.8	1056.7	1049.5	1057.8	1056.7
7.5°	1051.5	1050.5	1043.2	1050.5	1049.5
10°	1041.2	1041.2	1032.9	1040.1	1039.1
12.5°	1026.6	1027.7	1021.4	1026.6	1023.5
15°	1011.1	1012.1	1004.8	1011.1	1006.9
17.5°	991.3	993.4	986.1	991.3	988.2
20°	969.5	971.6	964.3	967.5	967.5
22.5°	944.6	948.8	940.5	944.6	941.5
25°	918.7	921.8	915.6	919.7	914.5
27.5°	890.6	894.8	887.5	890.6	888.6
30°	858.5	864.7	858.5	860.5	859.5
32.5°	829.4	834.6	830.4	832.5	831.5
35°	795.1	802.4	799.3	802.4	802.4
37.5°	761.9	768.2	767.1	771.3	770.2
40°	727.7	736.0	734.9	739.1	741.2
42.5°	690.3	701.7	704.8	710.0	710.0
45°	655.0	666.4	671.6	678.9	679.9
47.5°	618.7	629.1	637.4	647.7	649.8
50°	581.3	592.7	604.1	615.6	618.7
52.5°	541.9	556.4	570.9	583.4	585.5
55°	503.5	520.1	536.7	548.1	552.2
57.5°	464.0	483.7	502.4	514.9	518.0
60°	424.6	445.3	466.1	481.7	484.8
62.5°	386.2	406.9	429.8	447.4	451.6
65°	346.7	370.6	395.5	411.1	415.2
67.5°	310.4	333.2	358.1	376.8	382.0
70°	269.9	293.8	320.8	340.5	346.7
72.5°	230.4	255.4	285.5	307.3	311.4
75°	191.0	218.0	251.2	272.0	277.2
77.5°	152.6	183.7	214.9	237.7	241.9
80°	117.3	148.4	183.7	206.6	210.7
82.5°	85.1	118.3	154.7	176.5	184.8
85°	57.1	91.3	127.7	150.5	158.8
87.5°	36.3	69.5	104.8	128.7	136.0
90°	17.0	53.0	90.8	116.4	124.8
92.5°	25.1	57.0	96.6	121.8	129.8
95°	36.5	64.2	103.0	128.3	136.3
97.5°	47.9	73.1	112.3	136.2	143.8
100°	60.9	82.7	120.5	145.5	152.5
102.5°	75.1	96.6	130.6	154.8	162.2
105°	89.9	108.4	141.6	164.5	172.8
107.5°	106.3	122.5	154.4	176.3	182.5
110°	123.3	137.5	167.6	188.4	195.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	151.7	181.1	200.2	206.8
115°	158.6	167.3	195.0	213.4	219.2
117.5°	176.0	181.6	208.2	226.2	232.0
120°	193.0	197.9	222.1	239.7	244.6
122.5°	210.4	211.7	235.6	251.8	257.1
125°	226.6	227.7	248.8	264.7	269.6
127.5°	243.6	243.6	261.6	276.8	282.3
130°	259.5	260.3	275.5	289.6	294.1
132.5°	274.4	277.6	287.6	301.8	304.8
135°	291.4	292.4	300.1	313.6	317.3
137.5°	307.3	308.3	313.2	326.0	328.4
140°	321.4	323.2	325.3	337.4	339.8
142.5°	336.6	337.0	338.4	348.1	350.5
145°	351.5	351.9	352.9	358.1	361.2
147.5°	364.3	365.3	366.0	369.2	368.5
150°	378.0	377.7	379.1	379.1	379.4
152.5°	389.4	390.1	390.4	391.5	390.1
155°	401.0	401.0	401.4	402.8	401.0
157.5°	411.6	410.9	411.3	412.7	410.2
160°	420.8	419.8	420.1	421.5	419.8
162.5°	429.0	428.3	428.3	430.0	427.9
165°	436.0	435.3	435.7	437.1	435.0
167.5°	442.4	441.0	441.0	443.1	441.0
170°	447.4	445.9	445.9	448.1	445.6
172.5°	450.9	449.5	449.5	451.6	449.5
175°	453.4	452.0	452.0	454.1	451.6
177.5°	455.1	453.7	453.4	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)