

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: P1027936

Luminaire Tested: S125DIP-B375D850UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027936
REPORT IS A COMBINATION OF REPORTS P1002067 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D850UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

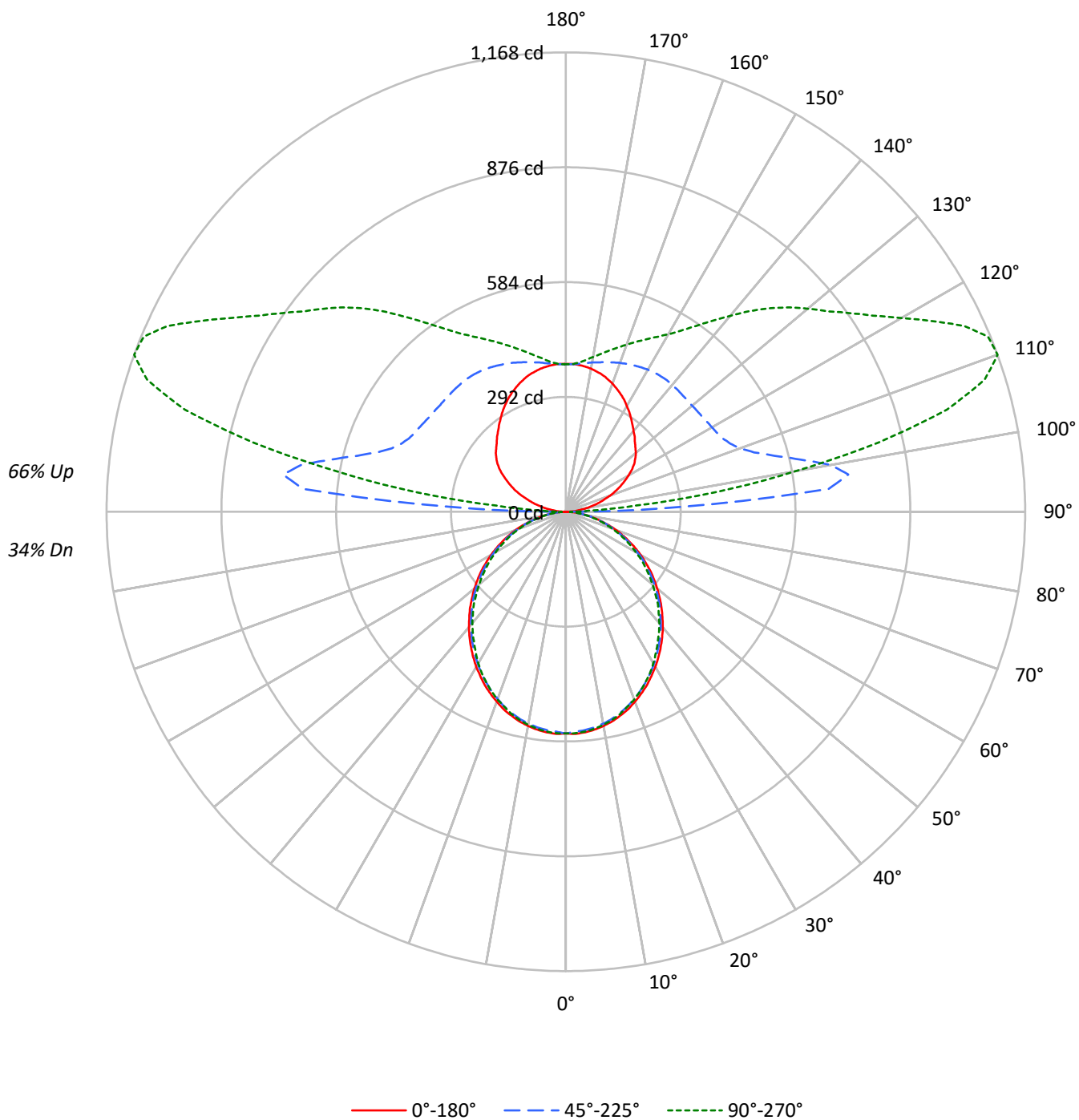
Lumens per Lamp: N/A
Luminaire Lumens: 4294.8 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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

TEST NUMBER: P1027936

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



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CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-F4

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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	90	86	83	85	81	78	75	65	63	61	50	49	48	37	36	35
2	86	78	73	67	77	71	66	62	57	53	50	44	42	40	32	31	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	34	29	27	25
4	71	61	53	47	64	55	49	43	45	40	36	35	31	29	25	23	22
5	65	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	15
8	52	40	32	27	46	36	29	25	29	24	21	23	20	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3611	3611	3611
5°	3611	3528	3534
10°	3581	3446	3436
15°	3534	3350	3320
20°	3471	3238	3187
25°	3402	3115	3045
30°	3321	2988	2894
35°	3232	2855	2726
40°	3142	2713	2577
45°	3043	2575	2418
50°	2935	2419	2233
55°	2828	2247	2063
60°	2700	2065	1865
65°	2547	1855	1660
70°	2391	1614	1424
75°	2131	1330	1151
80°	1816	993	848
85°	1401	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3043 cd/sqm

TEST NUMBER: P1027936

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.2
10°-20°	150.2	3.5
20°-30°	221.8	5.2
30°-40°	258.8	6.0
40°-50°	259.9	6.1
50°-60°	228.1	5.3
60°-70°	169.9	4.0
70°-80°	97.1	2.3
80°-90°	29.5	0.7
90°-100°	282.8	6.6
100°-110°	587.4	13.7
110°-120°	548.6	12.8
120°-130°	443.9	10.3
130°-140°	356.7	8.3
140°-150°	269.2	6.3
150°-160°	189.6	4.4
160°-170°	111.7	2.6
170°-180°	36.3	0.8
0°-30°	425.2	9.9
0°-40°	684.0	15.9
0°-60°	1172.0	27.3
0°-90°	1468.5	34.2
90°-120°	1418.8	33.0
90°-150°	2488.7	57.9
90°-180°	2826.0	65.8
0°-180°	4294.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	561	53
15°	536	535	530	532	532	151
25°	487	485	479	480	478	224
35°	420	419	412	410	407	263
45°	344	342	337	332	330	265
55°	262	261	255	251	248	234
65°	177	176	171	167	165	176
75°	94	93	91	90	88	100
85°	24	25	25	24	24	27
90°	1	7	12	16	17	3
95°	25	74	671	304	178	26
105°	86	120	549	1081	1003	90
115°	153	184	441	950	1118	151
125°	212	248	422	756	880	188
135°	248	299	419	633	731	193
145°	289	331	421	524	577	181
155°	330	355	410	464	484	152
165°	360	370	394	418	424	102
175°	375	375	378	382	381	36
180°	376	376	376	376	376	

TEST NUMBER: P1027936

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	565.4	564.1	559.6	564.1	563.6
5°	562.7	561.9	557.4	561.4	561.0
7.5°	558.7	557.8	552.9	556.9	556.5
10°	552.9	552.0	547.1	550.7	550.3
12.5°	545.8	544.0	539.6	542.2	542.2
15°	536.4	535.1	530.2	532.4	532.4
17.5°	526.6	524.4	519.5	522.2	519.9
20°	513.7	512.8	507.0	510.1	507.9
22.5°	500.8	499.0	493.6	495.4	494.1
25°	486.9	484.7	478.9	479.8	478.5
27.5°	470.9	469.5	463.7	464.2	462.9
30°	455.3	453.9	447.3	446.4	445.0
32.5°	438.3	436.1	430.3	428.5	425.8
35°	420.5	418.7	412.5	410.2	406.7
37.5°	402.2	400.0	394.2	391.1	388.8
40°	383.5	381.3	375.0	371.0	369.7
42.5°	363.4	361.6	355.4	351.8	349.6
45°	344.2	342.5	337.1	331.8	330.4
47.5°	323.3	323.7	317.0	311.7	308.6
50°	303.2	301.9	296.5	290.7	287.6
52.5°	282.7	281.8	276.0	271.1	267.5
55°	262.2	260.9	254.6	250.6	247.5
57.5°	240.3	239.9	234.6	229.2	227.9
60°	219.8	218.1	213.1	208.7	205.6
62.5°	198.4	197.1	193.1	188.2	185.9
65°	177.0	176.1	171.2	167.2	165.4
67.5°	156.1	154.3	150.7	147.2	146.3
70°	136.4	134.2	130.2	127.5	125.7
72.5°	115.0	113.7	111.5	108.4	106.6
75°	94.1	93.2	91.0	89.6	87.8
77.5°	74.5	74.0	72.7	71.8	70.5
80°	56.2	56.2	55.3	54.8	54.0
82.5°	40.1	39.2	39.2	38.3	38.3
85°	24.5	25.0	25.0	24.5	23.6
87.5°	12.0	12.0	11.6	11.6	10.7
90°	0.8	6.8	12.1	15.9	17.4
92.5°	11.4	62.1	302.1	80.6	56.0
95°	25.0	73.8	670.8	304.4	177.9
97.5°	38.6	79.9	724.5	549.6	389.9
100°	53.0	91.6	683.7	776.8	590.5
102.5°	68.9	104.8	611.7	969.0	814.6
105°	85.6	119.6	548.9	1080.8	1003.1
107.5°	101.5	135.2	502.0	1112.2	1116.7
110°	118.9	151.4	470.9	1082.2	1168.2

TEST NUMBER: P1027936

CATALOG NUMBER: S125DIP-B375D850UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.3	167.7	452.7	1019.8	1162.1
115°	152.9	184.4	440.6	949.8	1117.5
117.5°	168.1	201.4	433.8	886.2	1050.1
120°	183.2	217.6	429.3	832.8	985.0
122.5°	199.1	233.6	425.5	790.0	927.4
125°	212.0	248.4	422.5	755.6	880.5
127.5°	222.6	262.8	420.9	726.0	837.3
130°	232.4	276.4	419.4	696.2	803.3
132.5°	240.0	288.5	419.4	664.0	769.2
135°	248.3	298.7	419.4	633.3	731.4
137.5°	258.9	308.1	420.2	601.2	692.0
140°	268.0	316.1	420.9	571.6	650.3
142.5°	278.6	323.6	421.7	546.2	611.7
145°	289.2	331.2	420.9	524.3	576.9
147.5°	300.6	338.0	419.4	505.4	545.9
150°	310.4	344.1	417.2	489.8	520.9
152.5°	321.0	350.2	414.1	476.6	501.2
155°	330.1	355.1	410.3	463.8	483.8
157.5°	338.4	360.0	406.6	451.6	467.9
160°	346.7	363.8	402.8	439.4	452.0
162.5°	353.6	367.5	398.2	428.5	437.6
165°	360.4	370.2	393.7	417.5	424.0
167.5°	364.9	371.7	389.1	407.3	411.1
170°	369.5	373.6	385.4	397.4	399.7
172.5°	372.5	374.4	380.8	389.5	389.1
175°	374.8	374.8	377.8	382.3	380.8
177.5°	376.3	374.8	375.5	377.8	375.5
180°	375.5	375.5	375.5	375.5	375.5

(END OF REPORT)